

GenCore version 5.1.9  
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OM protein - protein search, using sw model

Run on: July 28, 2006, 13:54:14 ; Search time 49 Seconds  
(without alignments)  
494.816 Million cell updates/sec

Title: US-10-063-530-28  
Perfect score: 277  
Sequence: 1 MHIVPLQLVLLVLTLP...PSIQLEQATHPVLPBGT 277

Scoring table: OLIGO  
Gapop 60.0 , Gapext 60.0

Searched: 650591 seqs, 87530628 residues

Word size: 6  
Total number of hits satisfying chosen parameters: 1588

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-Processing: Listing first 1500 summaries

Database :

Issued Patents AA:\*  
1: /EMC\_Celerra\_SIDS3/ptodata/2/1aa/5\_COMB.pep:\*  
2: /EMC\_Celerra\_SIDS3/ptodata/2/1aa/7\_COMB.pep:\*  
3: /EMC\_Celerra\_SIDS3/ptodata/2/1aa/7\_COMB.pep:\*  
4: /EMC\_Celerra\_SIDS3/ptodata/2/1aa/H\_COMB.pep:\*  
5: /EMC\_Celerra\_SIDS3/ptodata/2/1aa/RE\_COMB.pep:\*  
6: /EMC\_Celerra\_SIDS3/ptodata/2/1aa/RE\_COMB.pep:\*  
7: /EMC\_Celerra\_SIDS3/ptodata/2/1aa/backfile1.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description                            |
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| 1          | 277   | 100.0       | 277    | 2  | US-09-991-181-169 Sequence 169, App    |
| 2          | 277   | 100.0       | 277    | 2  | US-09-990-444-169 Sequence 169, App    |
| 3          | 277   | 100.0       | 277    | 2  | US-09-997-333-169 Sequence 169, App    |
| 4          | 277   | 100.0       | 277    | 2  | US-09-992-598-169 Sequence 169, App    |
| 5          | 277   | 100.0       | 277    | 2  | US-09-989-735-169 Sequence 169, App    |
| 6          | 277   | 100.0       | 277    | 3  | US-09-989-726-169 Sequence 169, App    |
| 7          | 277   | 100.0       | 277    | 3  | US-09-997-514-169 Sequence 169, App    |
| 8          | 277   | 100.0       | 277    | 3  | US-09-989-728-169 Sequence 169, App    |
| 9          | 277   | 100.0       | 277    | 3  | US-09-997-349-169 Sequence 169, App    |
| 10         | 277   | 100.0       | 277    | 3  | US-09-997-653-169 Sequence 169, App    |
| 11         | 277   | 100.0       | 277    | 3  | US-09-989-293A-169 Sequence 169, App   |
| 12         | 131   | 47.3        | 151    | 2  | US-08-905-223-436 Sequence 436, App    |
| 13         | 131   | 47.3        | 158    | 2  | US-09-621-976-4227 Sequence 4227, App  |
| 14         | 10    | 3.6         | 281    | 2  | US-09-352-991A-19858 Sequence 19858, A |
| 15         | 9     | 3.2         | 147    | 2  | US-09-502-540-12005 Sequence 12005, A  |
| 16         | 8     | 2.9         | 254    | 2  | US-09-552-991A-20270 Sequence 20270, A |
| 17         | 8     | 2.9         | 257    | 2  | US-09-583-110-3689 Sequence 3689, App  |
| 18         | 8     | 2.9         | 267    | 2  | US-09-107-433-4547 Sequence 4547, App  |
| 19         | 8     | 2.9         | 436    | 2  | US-09-252-991A-22426 Sequence 22426, A |
| 20         | 8     | 2.9         | 1484   | 2  | US-09-902-540-14332 Sequence 14332, A  |
| 21         | 7     | 2.5         | 18     | 1  | US-08-978-604B-30 Sequence 30, App1    |
| 22         | 7     | 2.5         | 48     | 2  | US-09-831-683B-36 Sequence 36, App1    |
| 23         | 7     | 2.5         | 78     | 2  | US-09-991-181-363 Sequence 363, App    |
| 24         | 7     | 2.5         | 78     | 2  | US-09-990-444-363 Sequence 363, App    |
| 25         | 7     | 2.5         | 78     | 2  | US-09-997-333-363 Sequence 363, App    |
| 26         | 7     | 2.5         | 78     | 2  | US-09-992-598-363 Sequence 363, App    |

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| 27 | 7 | 2.5 | 78  | 2 | US-09-989-735-363 Sequence 363, App      |
| 28 | 7 | 2.5 | 78  | 3 | US-09-989-726-363 Sequence 363, App      |
| 29 | 7 | 2.5 | 78  | 3 | US-09-997-514-363 Sequence 363, App      |
| 30 | 7 | 2.5 | 78  | 3 | US-09-989-728-363 Sequence 363, App      |
| 31 | 7 | 2.5 | 78  | 3 | US-09-997-349-363 Sequence 363, App      |
| 32 | 7 | 2.5 | 78  | 3 | US-09-997-653-363 Sequence 363, App      |
| 33 | 7 | 2.5 | 78  | 3 | US-09-989-293A-363 Sequence 363, App     |
| 34 | 7 | 2.5 | 114 | 2 | US-09-266-965-2 Sequence 2, App1         |
| 35 | 7 | 2.5 | 115 | 2 | US-09-266-965-1 Sequence 1, App1         |
| 36 | 7 | 2.5 | 115 | 2 | US-09-266-965-6 Sequence 6, App1         |
| 37 | 7 | 2.5 | 116 | 2 | US-09-081-320-29 Sequence 29, App1       |
| 38 | 7 | 2.5 | 116 | 2 | US-09-574-141A-29 Sequence 29, App1      |
| 39 | 7 | 2.5 | 116 | 2 | US-09-707-780-29 Sequence 29, App1       |
| 40 | 7 | 2.5 | 116 | 2 | US-09-568-189A-29 Sequence 29, App1      |
| 41 | 7 | 2.5 | 117 | 2 | US-09-081-320-7 Sequence 7, App1         |
| 42 | 7 | 2.5 | 117 | 2 | US-09-574-141A-7 Sequence 7, App1        |
| 43 | 7 | 2.5 | 117 | 2 | US-09-574-141A-74 Sequence 74, App1      |
| 44 | 7 | 2.5 | 117 | 2 | US-09-707-780-7 Sequence 7, App1         |
| 45 | 7 | 2.5 | 117 | 2 | US-09-568-189A-7 Sequence 7, App1        |
| 46 | 7 | 2.5 | 117 | 2 | US-09-568-189A-74 Sequence 74, App1      |
| 47 | 7 | 2.5 | 128 | 2 | US-09-902-540-14686 Sequence 14686, A    |
| 48 | 7 | 2.5 | 128 | 2 | US-09-327-750F-33 Sequence 33, App1      |
| 49 | 7 | 2.5 | 131 | 2 | US-09-569-611C-44 Sequence 44, App1      |
| 50 | 7 | 2.5 | 147 | 2 | US-09-902-540-13794 Sequence 13794, A    |
| 51 | 7 | 2.5 | 188 | 2 | US-09-270-767-57056 Sequence 57056, A    |
| 52 | 7 | 2.5 | 195 | 2 | US-09-489-039A-10747 Sequence 10747, A   |
| 53 | 7 | 2.5 | 203 | 2 | US-09-543-681A-4329 Sequence 4329, App   |
| 54 | 7 | 2.5 | 219 | 2 | US-08-511-731A-8 Sequence 8, App1        |
| 55 | 7 | 2.5 | 220 | 2 | US-09-549-108-15 Sequence 15, App1       |
| 56 | 7 | 2.5 | 220 | 2 | US-09-549-108-15 Sequence 15, App1       |
| 57 | 7 | 2.5 | 220 | 2 | US-09-549-111-15 Sequence 15, App1       |
| 58 | 7 | 2.5 | 220 | 2 | US-09-550-394-15 Sequence 15, App1       |
| 59 | 7 | 2.5 | 220 | 2 | US-09-550-394-15 Sequence 15, App1       |
| 60 | 7 | 2.5 | 227 | 2 | US-09-902-540-10904 Sequence 10904, A    |
| 61 | 7 | 2.5 | 235 | 2 | US-09-328-352-4407 Sequence 4407, App    |
| 62 | 7 | 2.5 | 242 | 2 | US-09-252-991A-21719 Sequence 21719, A   |
| 63 | 7 | 2.5 | 242 | 2 | US-09-902-540-13983 Sequence 13983, A    |
| 64 | 7 | 2.5 | 243 | 2 | US-09-831-683B-20 Sequence 20, App1      |
| 65 | 7 | 2.5 | 244 | 2 | US-09-352-991A-26246 Sequence 26246, A   |
| 66 | 7 | 2.5 | 245 | 2 | US-09-198-452A-37 Sequence 37, App1      |
| 67 | 7 | 2.5 | 273 | 1 | US-08-978-404B-3 Sequence 3, App1        |
| 68 | 7 | 2.5 | 273 | 1 | US-08-978-404B-6 Sequence 6, App1        |
| 69 | 7 | 2.5 | 275 | 2 | US-09-266-965-110 Sequence 110, App      |
| 70 | 7 | 2.5 | 280 | 2 | US-09-029-603-2 Sequence 2, App1         |
| 71 | 7 | 2.5 | 280 | 2 | US-10-101-464A-511 Sequence 511, App1    |
| 72 | 7 | 2.5 | 283 | 2 | US-09-266-965-109 Sequence 109, App      |
| 73 | 7 | 2.5 | 283 | 2 | US-09-252-991A-29465 Sequence 29465, A   |
| 74 | 7 | 2.5 | 307 | 2 | US-09-252-991A-31720 Sequence 31720, A   |
| 75 | 7 | 2.5 | 359 | 2 | US-09-489-039A-10128 Sequence 10128, A   |
| 76 | 7 | 2.5 | 386 | 2 | US-09-902-540-11003 Sequence 11003, A    |
| 77 | 7 | 2.5 | 493 | 2 | US-09-252-991A-19043 Sequence 19043, A   |
| 78 | 7 | 2.5 | 493 | 2 | US-09-252-991A-26239 Sequence 26239, A   |
| 79 | 7 | 2.5 | 431 | 1 | US-08-836-620A-19 Sequence 19, App1      |
| 80 | 7 | 2.5 | 438 | 2 | US-09-949-016-7812 Sequence 7812, App    |
| 81 | 7 | 2.5 | 456 | 2 | US-09-252-991A-25142 Sequence 25142, A   |
| 82 | 7 | 2.5 | 500 | 2 | US-09-141-000-2 Sequence 2, App1         |
| 83 | 7 | 2.5 | 518 | 1 | US-08-836-620A-18 Sequence 18, App1      |
| 84 | 7 | 2.5 | 519 | 2 | US-09-902-540-12431 Sequence 12431, A    |
| 85 | 7 | 2.5 | 561 | 2 | US-09-758-759-149 Sequence 149, App1     |
| 86 | 7 | 2.5 | 572 | 2 | US-09-107-433-3479 Sequence 3479, App    |
| 87 | 7 | 2.5 | 579 | 2 | US-09-252-991A-27857 Sequence 27857, App |
| 88 | 7 | 2.5 | 583 | 2 | US-09-583-110-3571 Sequence 3571, App    |
| 89 | 7 | 2.5 | 588 | 2 | US-09-338-185A-23 Sequence 23, App1      |
| 90 | 7 | 2.5 | 600 | 2 | US-09-583-110-5188 Sequence 5188, App    |
| 91 | 7 | 2.5 | 606 | 2 | US-09-107-433-4369 Sequence 4369, App    |
| 92 | 7 | 2.5 | 788 | 2 | US-09-538-092-567 Sequence 567, App      |
| 93 | 7 | 2.5 | 832 | 2 | US-09-252-991A-11267 Sequence 11267, A   |
| 94 | 7 | 2.5 | 998 | 2 | US-10-101-464A-914 Sequence 914, App1    |
| 95 | 6 | 2.2 | 8   | 3 | US-09-641-528B-3623 Sequence 3623, App   |
| 96 | 6 | 2.2 | 9   | 3 | US-09-641-528B-5526 Sequence 5526, App   |
| 97 | 6 | 2.2 | 9   | 3 | US-09-641-528B-5624 Sequence 5624, App   |
| 98 | 6 | 2.2 | 9   | 3 | US-09-641-528B-22192 Sequence 22192, A   |
| 99 | 6 | 2.2 | 9   | 3 | US-09-641-528B-51017 Sequence 51017, A   |

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|-----|---|-----|----|---|----------------------|-------------------|-----|---|-----|-----|---|----------------------|-------------------|
| 100 | 6 | 2.2 | 10 | 2 | US-09-755-630B-125   | Sequence 125, App | 173 | 6 | 2.2 | 74  | 2 | US-09-270-767-37734  | Sequence 37734, A |
| 101 | 6 | 2.2 | 10 | 2 | US-10-658-180-125    | Sequence 125, App | 174 | 6 | 2.2 | 74  | 2 | US-09-270-767-52951  | Sequence 52951, A |
| 102 | 6 | 2.2 | 10 | 3 | US-09-641-528B-5502  | Sequence 5502, Ap | 175 | 6 | 2.2 | 74  | 2 | US-09-248-796A-21015 | Sequence 21015, A |
| 103 | 6 | 2.2 | 10 | 3 | US-09-641-528B-5527  | Sequence 5527, Ap | 176 | 6 | 2.2 | 74  | 2 | US-09-248-796A-26883 | Sequence 26883, A |
| 104 | 6 | 2.2 | 10 | 3 | US-09-641-528B-14151 | Sequence 14151, A | 177 | 6 | 2.2 | 78  | 2 | US-10-178-213-314    | Sequence 314, App |
| 105 | 6 | 2.2 | 10 | 3 | US-09-641-528B-22193 | Sequence 22193, A | 178 | 6 | 2.2 | 78  | 2 | US-10-178-213-328    | Sequence 329, App |
| 106 | 6 | 2.2 | 10 | 3 | US-09-641-528B-27296 | Sequence 27296, A | 179 | 6 | 2.2 | 80  | 2 | US-09-252-991A-21677 | Sequence 21677, A |
| 107 | 6 | 2.2 | 10 | 3 | US-09-641-528B-35429 | Sequence 35429, A | 180 | 6 | 2.2 | 82  | 2 | US-09-198-452A-590   | Sequence 590, App |
| 108 | 6 | 2.2 | 11 | 3 | US-09-641-528B-908   | Sequence 908, App | 181 | 6 | 2.2 | 82  | 2 | US-10-178-213-35     | Sequence 35, App  |
| 109 | 6 | 2.2 | 11 | 3 | US-09-641-528B-5503  | Sequence 5503, Ap | 182 | 6 | 2.2 | 82  | 2 | US-10-178-213-341    | Sequence 341, App |
| 110 | 6 | 2.2 | 11 | 3 | US-09-641-528B-14134 | Sequence 14134, A | 183 | 6 | 2.2 | 83  | 2 | US-09-107-532A-5274  | Sequence 5274, Ap |
| 111 | 6 | 2.2 | 11 | 3 | US-09-641-528B-14152 | Sequence 14152, A | 184 | 6 | 2.2 | 83  | 2 | US-10-178-213-47     | Sequence 47, App  |
| 112 | 6 | 2.2 | 11 | 3 | US-09-641-528B-22194 | Sequence 22194, A | 185 | 6 | 2.2 | 84  | 2 | US-09-270-767-38797  | Sequence 38797, A |
| 113 | 6 | 2.2 | 11 | 3 | US-09-641-528B-27297 | Sequence 27297, A | 186 | 6 | 2.2 | 84  | 2 | US-09-270-767-54014  | Sequence 54014, A |
| 114 | 6 | 2.2 | 11 | 3 | US-09-641-528B-27299 | Sequence 27299, A | 187 | 6 | 2.2 | 84  | 2 | US-10-178-213-80     | Sequence 80, App  |
| 115 | 6 | 2.2 | 11 | 3 | US-09-641-528B-35290 | Sequence 35290, A | 188 | 6 | 2.2 | 84  | 2 | US-10-178-213-338    | Sequence 338, App |
| 116 | 6 | 2.2 | 11 | 3 | US-09-641-528B-35430 | Sequence 35430, A | 189 | 6 | 2.2 | 85  | 2 | US-10-178-213-338    | Sequence 77, App  |
| 117 | 6 | 2.2 | 11 | 3 | US-09-641-528B-45765 | Sequence 45765, A | 190 | 6 | 2.2 | 86  | 2 | US-09-489-032A-8310  | Sequence 8310, Ap |
| 118 | 6 | 2.2 | 15 | 3 | US-09-336-536-5      | Sequence 5, App   | 191 | 6 | 2.2 | 86  | 2 | US-09-107-433-5131   | Sequence 5131, Ap |
| 119 | 6 | 2.2 | 15 | 3 | US-09-641-528B-47396 | Sequence 47396, A | 192 | 6 | 2.2 | 87  | 2 | US-09-149-476-457    | Sequence 457, App |
| 120 | 6 | 2.2 | 15 | 3 | US-09-641-528B-50686 | Sequence 50686, A | 193 | 6 | 2.2 | 88  | 2 | US-09-621-976-5199   | Sequence 5199, Ap |
| 121 | 6 | 2.2 | 18 | 2 | US-08-469-318-187    | Sequence 187, App | 194 | 6 | 2.2 | 88  | 2 | US-09-270-767-58476  | Sequence 58476, A |
| 122 | 6 | 2.2 | 18 | 2 | US-08-468-609A-187   | Sequence 187, App | 195 | 6 | 2.2 | 91  | 2 | US-09-270-767-39989  | Sequence 39989, A |
| 123 | 6 | 2.2 | 18 | 2 | US-08-875-533-28     | Sequence 28, App  | 196 | 6 | 2.2 | 91  | 2 | US-09-583-110-5077   | Sequence 5077, Ap |
| 124 | 6 | 2.2 | 18 | 2 | US-08-446-872A-187   | Sequence 187, App | 197 | 6 | 2.2 | 91  | 2 | US-09-385-212A-30    | Sequence 30, App  |
| 125 | 6 | 2.2 | 18 | 2 | US-08-762-327A-187   | Sequence 187, App | 198 | 6 | 2.2 | 94  | 2 | US-09-583-110-5077   | Sequence 4275, Ap |
| 126 | 6 | 2.2 | 18 | 5 | PCT-US95-01185-187   | Sequence 187, App | 199 | 6 | 2.2 | 94  | 2 | US-09-248-796A-18448 | Sequence 18448, A |
| 127 | 6 | 2.2 | 20 | 2 | US-09-162-934-18     | Sequence 187, App | 200 | 6 | 2.2 | 95  | 2 | US-09-107-433-4343   | Sequence 4343, Ap |
| 128 | 6 | 2.2 | 20 | 2 | US-09-812-528-18     | Sequence 18, App  | 201 | 6 | 2.2 | 95  | 2 | US-09-352-991A-24821 | Sequence 24821, A |
| 129 | 6 | 2.2 | 21 | 2 | US-09-643-657-25     | Sequence 18, App  | 202 | 6 | 2.2 | 96  | 2 | US-09-621-976-5272   | Sequence 5272, Ap |
| 130 | 6 | 2.2 | 22 | 2 | US-09-162-934-17     | Sequence 25, App  | 203 | 6 | 2.2 | 96  | 2 | US-09-270-767-42429  | Sequence 42429, A |
| 131 | 6 | 2.2 | 22 | 2 | US-09-812-528-17     | Sequence 17, App  | 204 | 6 | 2.2 | 96  | 2 | US-10-104-047-3900   | Sequence 3900, Ap |
| 132 | 6 | 2.2 | 27 | 2 | US-09-205-358-798    | Sequence 798, App | 205 | 6 | 2.2 | 101 | 2 | US-09-513-999C-4428  | Sequence 4428, Ap |
| 133 | 6 | 2.2 | 27 | 2 | US-10-004-860-798    | Sequence 798, App | 206 | 6 | 2.2 | 102 | 2 | US-09-270-767-41172  | Sequence 41172, A |
| 134 | 6 | 2.2 | 28 | 2 | US-09-019-095A-34    | Sequence 34, App  | 207 | 6 | 2.2 | 106 | 2 | US-09-134-001C-4708  | Sequence 4708, Ap |
| 135 | 6 | 2.2 | 33 | 1 | US-08-461-990B-4     | Sequence 4, App   | 208 | 6 | 2.2 | 108 | 2 | US-09-621-976-5858   | Sequence 5858, Ap |
| 136 | 6 | 2.2 | 38 | 1 | US-08-530-290-17     | Sequence 17, App  | 209 | 6 | 2.2 | 108 | 2 | US-09-621-976-5858   | Sequence 29, App  |
| 137 | 6 | 2.2 | 39 | 2 | US-09-270-767-59714  | Sequence 59714, A | 210 | 6 | 2.2 | 110 | 1 | US-08-468-819-4      | Sequence 3, App   |
| 138 | 6 | 2.2 | 40 | 2 | US-09-380-061B-12    | Sequence 12, App  | 211 | 6 | 2.2 | 110 | 2 | US-08-468-819-4      | Sequence 29, App  |
| 139 | 6 | 2.2 | 43 | 2 | US-09-643-657-21     | Sequence 21, App  | 212 | 6 | 2.2 | 110 | 2 | US-08-469-617-29     | Sequence 29, App  |
| 140 | 6 | 2.2 | 44 | 2 | US-09-385-219A-63    | Sequence 63, App  | 213 | 6 | 2.2 | 110 | 2 | US-08-469-617-29     | Sequence 29, App  |
| 141 | 6 | 2.2 | 45 | 2 | US-08-900-230-11     | Sequence 11, App  | 214 | 6 | 2.2 | 110 | 2 | US-08-252-778-29     | Sequence 29, App  |
| 142 | 6 | 2.2 | 48 | 2 | US-09-178-093B-41    | Sequence 41, App  | 215 | 6 | 2.2 | 111 | 2 | US-09-513-999C-7842  | Sequence 7842, Ap |
| 143 | 6 | 2.2 | 49 | 2 | US-09-902-540-11563  | Sequence 11563, A | 216 | 6 | 2.2 | 111 | 2 | US-10-104-047-3346   | Sequence 3346, Ap |
| 144 | 6 | 2.2 | 51 | 2 | US-09-513-999C-6456  | Sequence 6456, Ap | 217 | 6 | 2.2 | 113 | 2 | US-08-816-772-9      | Sequence 9, App   |
| 145 | 6 | 2.2 | 55 | 2 | US-09-902-540-15785  | Sequence 15785, A | 218 | 6 | 2.2 | 113 | 2 | US-09-107-532A-4526  | Sequence 4526, Ap |
| 146 | 6 | 2.2 | 57 | 2 | US-09-270-767-34544  | Sequence 34544, A | 219 | 6 | 2.2 | 113 | 2 | US-09-621-976-4026   | Sequence 4026, Ap |
| 147 | 6 | 2.2 | 57 | 2 | US-09-270-767-38422  | Sequence 38422, A | 220 | 6 | 2.2 | 113 | 2 | US-10-141-938A-9     | Sequence 9, App   |
| 148 | 6 | 2.2 | 57 | 2 | US-09-270-767-49761  | Sequence 49761, A | 221 | 6 | 2.2 | 114 | 1 | US-08-352-324A-3     | Sequence 3, App   |
| 149 | 6 | 2.2 | 57 | 2 | US-09-270-767-53639  | Sequence 53639, A | 222 | 6 | 2.2 | 114 | 1 | US-08-862-607-3      | Sequence 3, App   |
| 150 | 6 | 2.2 | 61 | 2 | US-09-248-796A-24940 | Sequence 24940, A | 223 | 6 | 2.2 | 114 | 1 | US-08-468-819-4      | Sequence 4, App   |
| 151 | 6 | 2.2 | 61 | 2 | US-10-101-464A-774   | Sequence 774, App | 224 | 6 | 2.2 | 114 | 2 | US-09-203-235-3      | Sequence 3, App   |
| 152 | 6 | 2.2 | 63 | 2 | US-08-470-369-8      | Sequence 8, App   | 225 | 6 | 2.2 | 114 | 2 | US-08-679-493A-149   | Sequence 149, App |
| 153 | 6 | 2.2 | 63 | 7 | 5304637-7            | Sequence 8, App   | 226 | 6 | 2.2 | 114 | 2 | US-09-213-383-4      | Sequence 4, App   |
| 154 | 6 | 2.2 | 64 | 2 | US-09-248-796A-14318 | Sequence 14318, A | 227 | 6 | 2.2 | 114 | 2 | US-09-588-044-3      | Sequence 3, App   |
| 155 | 6 | 2.2 | 64 | 2 | US-09-902-540-15071  | Sequence 15071, A | 228 | 6 | 2.2 | 114 | 2 | US-08-927-939A-52    | Sequence 52, App  |
| 156 | 6 | 2.2 | 65 | 2 | US-09-248-796A-23316 | Sequence 23316, A | 229 | 6 | 2.2 | 114 | 5 | PCT-US95-16144-3     | Sequence 3, App   |
| 157 | 6 | 2.2 | 66 | 2 | US-09-621-976-1173   | Sequence 1173, Ap | 230 | 6 | 2.2 | 115 | 2 | US-09-252-991A-18372 | Sequence 18372, A |
| 158 | 6 | 2.2 | 66 | 2 | US-09-513-999C-4690  | Sequence 4690, Ap | 231 | 6 | 2.2 | 117 | 2 | US-09-081-320-18     | Sequence 18, App  |
| 159 | 6 | 2.2 | 67 | 2 | US-09-461-325-239    | Sequence 239, App | 232 | 6 | 2.2 | 117 | 2 | US-09-574-141A-18    | Sequence 18, App  |
| 160 | 6 | 2.2 | 67 | 2 | US-09-461-325-416    | Sequence 416, App | 233 | 6 | 2.2 | 117 | 2 | US-09-707-780-18     | Sequence 18, App  |
| 161 | 6 | 2.2 | 67 | 2 | US-10-012-542-339    | Sequence 239, App | 234 | 6 | 2.2 | 117 | 2 | US-09-543-681A-4837  | Sequence 4837, Ap |
| 162 | 6 | 2.2 | 67 | 2 | US-10-012-542-416    | Sequence 416, App | 235 | 6 | 2.2 | 117 | 2 | US-09-568-189A-18    | Sequence 18, App  |
| 163 | 6 | 2.2 | 67 | 2 | US-10-115-123-239    | Sequence 239, App | 236 | 6 | 2.2 | 119 | 2 | US-09-513-999C-4283  | Sequence 4283, Ap |
| 164 | 6 | 2.2 | 67 | 2 | US-10-115-123-416    | Sequence 416, App | 237 | 6 | 2.2 | 119 | 2 | US-09-513-999C-4284  | Sequence 4284, Ap |
| 165 | 6 | 2.2 | 69 | 2 | US-09-248-796A-21877 | Sequence 21877, A | 238 | 6 | 2.2 | 121 | 2 | US-09-252-991A-28882 | Sequence 28882, A |
| 166 | 6 | 2.2 | 70 | 2 | US-09-107-532A-6193  | Sequence 6193, Ap | 239 | 6 | 2.2 | 121 | 2 | US-09-543-681A-6503  | Sequence 6503, Ap |
| 167 | 6 | 2.2 | 70 | 2 | US-09-270-767-41716  | Sequence 41716, A | 240 | 6 | 2.2 | 121 | 2 | US-09-727-7398-42    | Sequence 42, App  |
| 168 | 6 | 2.2 | 70 | 2 | US-09-248-796A-26417 | Sequence 26417, A | 241 | 6 | 2.2 | 122 | 2 | US-09-693-737-34     | Sequence 34, App  |
| 169 | 6 | 2.2 | 72 | 2 | US-08-468-260A-233   | Sequence 233, App | 242 | 6 | 2.2 | 122 | 2 | US-09-270-767-58078  | Sequence 58078, A |
| 170 | 6 | 2.2 | 72 | 2 | US-08-488-446-233    | Sequence 233, App | 243 | 6 | 2.2 | 124 | 2 | US-08-513-974B-349   | Sequence 349, App |
| 171 | 6 | 2.2 | 72 | 2 | US-08-467-344A-233   | Sequence 233, App | 244 | 6 | 2.2 | 125 | 2 | US-09-513-999C-4542  | Sequence 4542, Ap |
| 172 | 6 | 2.2 | 72 | 2 | US-08-424-550B-233   | Sequence 233, App | 245 | 6 | 2.2 | 126 | 2 | US-08-513-974B-350   | Sequence 350, App |

|     |   |     |     |   |                      |                    |      |   |     |     |   |                      |                    |
|-----|---|-----|-----|---|----------------------|--------------------|------|---|-----|-----|---|----------------------|--------------------|
| 246 | 6 | 2.2 | 127 | 2 | US-09-732-210-1685   | Sequence 1685, Ap  | 319  | 6 | 2.2 | 172 | 2 | US-09-248-796A-22984 | Sequence 22984, A  |
| 247 | 6 | 2.2 | 128 | 2 | US-09-248-796A-20779 | Sequence 20779, A  | 320. | 6 | 2.2 | 180 | 2 | US-09-270-767-46827  | Sequence 46827, A  |
| 248 | 6 | 2.2 | 129 | 2 | US-09-513-999C-6046  | Sequence 6046, Ap  | 321  | 6 | 2.2 | 181 | 2 | US-09-270-767-36377  | Sequence 36377, A  |
| 249 | 6 | 2.2 | 130 | 2 | US-10-094-749-2939   | Sequence 2939, Ap  | 322  | 6 | 2.2 | 181 | 2 | US-09-270-767-51594  | Sequence 51594, A  |
| 250 | 6 | 2.2 | 132 | 2 | US-09-205-258-796    | Sequence 796, App  | 323  | 6 | 2.2 | 182 | 2 | US-09-543-681A-5698  | Sequence 5698, Ap  |
| 251 | 6 | 2.2 | 132 | 2 | US-09-254-180C-147   | Sequence 147, App  | 324  | 6 | 2.2 | 183 | 2 | US-09-438-185A-928   | Sequence 928, App  |
| 252 | 6 | 2.2 | 132 | 2 | US-10-004-860-796    | Sequence 796, App  | 325  | 6 | 2.2 | 183 | 2 | US-09-902-540-12773  | Sequence 12773, A  |
| 253 | 6 | 2.2 | 133 | 2 | US-09-252-991A-19912 | Sequence 19912, A  | 326  | 6 | 2.2 | 183 | 2 | US-10-094-749-2663   | Sequence 2663, Ap  |
| 254 | 6 | 2.2 | 133 | 2 | US-10-104-047-2650   | Sequence 2650, Ap  | 327  | 6 | 2.2 | 185 | 2 | US-09-902-540-15977  | Sequence 15977, A  |
| 255 | 6 | 2.2 | 134 | 2 | US-09-489-039A-10444 | Sequence 10444, A  | 328  | 6 | 2.2 | 186 | 2 | US-09-830-230A-480   | Sequence 480, App  |
| 256 | 6 | 2.2 | 135 | 2 | US-09-252-991A-27592 | Sequence 27592, A  | 329  | 6 | 2.2 | 188 | 2 | US-09-107-433-3764   | Sequence 3764, Ap  |
| 257 | 6 | 2.2 | 136 | 2 | US-09-248-796A-14660 | Sequence 14660, A  | 330  | 6 | 2.2 | 189 | 2 | US-09-270-767-46721  | Sequence 46721, A  |
| 258 | 6 | 2.2 | 136 | 2 | US-09-513-999C-5062  | Sequence 5062, Ap  | 331  | 6 | 2.2 | 192 | 1 | US-08-086-428B-57    | Sequence 57, App1  |
| 259 | 6 | 2.2 | 138 | 2 | US-09-270-767-31870  | Sequence 31870, A  | 332  | 6 | 2.2 | 192 | 1 | US-08-468-570-57     | Sequence 57, App1  |
| 260 | 6 | 2.2 | 138 | 2 | US-09-270-767-47087  | Sequence 47087, A  | 333  | 6 | 2.2 | 192 | 1 | US-08-290-665A-57    | Sequence 57, App1  |
| 261 | 6 | 2.2 | 139 | 1 | US-08-680-726A-66    | Sequence 66, App1  | 334  | 6 | 2.2 | 192 | 2 | US-08-466-601A-57    | Sequence 57, App1  |
| 262 | 6 | 2.2 | 139 | 2 | US-09-092-409-66     | Sequence 66, App1  | 335  | 6 | 2.2 | 192 | 2 | US-09-949-016-7555   | Sequence 7555, Ap  |
| 263 | 6 | 2.2 | 140 | 2 | US-09-893-737-118    | Sequence 118, App  | 336  | 6 | 2.2 | 192 | 5 | PCT-US95-10398-57    | Sequence 57, App1  |
| 264 | 6 | 2.2 | 142 | 2 | US-09-489-039A-7233  | Sequence 7233, Ap  | 337  | 6 | 2.2 | 194 | 2 | US-09-252-991A-22032 | Sequence 22032, A  |
| 265 | 6 | 2.2 | 143 | 2 | US-09-489-039A-13298 | Sequence 13298, A  | 338  | 6 | 2.2 | 200 | 2 | US-09-578-458-13     | Sequence 13, App1  |
| 266 | 6 | 2.2 | 146 | 2 | US-09-270-767-33166  | Sequence 33166, A  | 339  | 6 | 2.2 | 200 | 2 | US-09-522-964A-13    | Sequence 13, App1  |
| 267 | 6 | 2.2 | 146 | 2 | US-09-270-767-48383  | Sequence 48383, A  | 340  | 6 | 2.2 | 202 | 2 | US-09-302-540-10034  | Sequence 10034, A  |
| 268 | 6 | 2.2 | 146 | 2 | US-10-001-254-38     | Sequence 38, App1  | 341  | 6 | 2.2 | 203 | 1 | US-08-028-463-1      | Sequence 1, App1   |
| 269 | 6 | 2.2 | 147 | 2 | US-09-543-681A-5412  | Sequence 5412, Ap  | 342  | 6 | 2.2 | 203 | 1 | US-08-461-836-1      | Sequence 1, App1   |
| 270 | 6 | 2.2 | 147 | 2 | US-09-583-110-4437   | Sequence 4437, Ap  | 343  | 6 | 2.2 | 203 | 2 | US-09-252-991A-23989 | Sequence 23989, A  |
| 271 | 6 | 2.2 | 148 | 2 | US-09-328-352-5350   | Sequence 5350, Ap  | 344  | 6 | 2.2 | 204 | 2 | US-09-902-540-12353  | Sequence 12353, A  |
| 272 | 6 | 2.2 | 149 | 1 | US-08-602-010A-18    | Sequence 18, App1  | 345  | 6 | 2.2 | 205 | 1 | US-08-800-751-1      | Sequence 1, App1   |
| 273 | 6 | 2.2 | 149 | 1 | US-08-680-726A-18    | Sequence 18, App1  | 346  | 6 | 2.2 | 205 | 1 | US-08-990-818-1      | Sequence 1, App1   |
| 274 | 6 | 2.2 | 149 | 2 | US-09-092-409-18     | Sequence 18, App1  | 347  | 6 | 2.2 | 205 | 2 | US-09-248-796A-15989 | Sequence 15989, A  |
| 275 | 6 | 2.2 | 149 | 2 | US-09-482-273-150    | Sequence 150, App  | 348  | 6 | 2.2 | 206 | 2 | US-09-489-039A-12129 | Sequence 12129, A  |
| 276 | 6 | 2.2 | 149 | 2 | US-09-270-767-32526  | Sequence 32526, A  | 349  | 6 | 2.2 | 207 | 2 | US-09-413-814-85     | Sequence 85, App1  |
| 277 | 6 | 2.2 | 149 | 2 | US-09-270-767-47743  | Sequence 47743, A  | 350  | 6 | 2.2 | 207 | 2 | US-08-811-518-13     | Sequence 13, App1  |
| 278 | 6 | 2.2 | 150 | 2 | US-09-328-352-4574   | Sequence 4574, Ap  | 351  | 6 | 2.2 | 207 | 2 | US-08-811-518-15     | Sequence 15, App1  |
| 279 | 6 | 2.2 | 150 | 2 | US-09-893-737-230    | Sequence 230, App  | 352  | 6 | 2.2 | 207 | 2 | US-10-211-689-10     | Sequence 10, App1  |
| 280 | 6 | 2.2 | 150 | 7 | 5304637-1            | Patent No. 5304637 | 353  | 6 | 2.2 | 207 | 2 | US-10-211-689-12     | Sequence 12, App1  |
| 281 | 6 | 2.2 | 152 | 1 | US-08-284-393B-12    | Sequence 12, App1  | 354  | 6 | 2.2 | 208 | 2 | US-09-248-796A-19709 | Sequence 19709, A  |
| 282 | 6 | 2.2 | 152 | 2 | US-08-470-369-2      | Sequence 2, App1   | 355  | 6 | 2.2 | 209 | 2 | US-09-893-737-126    | Sequence 126, App  |
| 283 | 6 | 2.2 | 152 | 2 | US-09-316-081-2      | Sequence 2, App1   | 356  | 6 | 2.2 | 210 | 2 | US-09-468-796A-25016 | Sequence 25016, A  |
| 284 | 6 | 2.2 | 152 | 2 | US-09-578-458-2      | Sequence 2, App1   | 357  | 6 | 2.2 | 211 | 2 | US-09-461-325-189    | Sequence 189, App  |
| 285 | 6 | 2.2 | 152 | 2 | US-09-522-964A-2     | Sequence 2, App1   | 358  | 6 | 2.2 | 211 | 2 | US-10-012-542-189    | Sequence 189, App  |
| 286 | 6 | 2.2 | 152 | 2 | US-09-462-941-10     | Sequence 10, App1  | 359  | 6 | 2.2 | 211 | 2 | US-10-115-123-189    | Sequence 189, App  |
| 287 | 6 | 2.2 | 152 | 2 | US-09-975-132A-25    | Sequence 25, App1  | 360  | 6 | 2.2 | 211 | 2 | US-09-902-540-12092  | Sequence 12092, A  |
| 288 | 6 | 2.2 | 152 | 5 | PCT-US95-08950-12    | Sequence 12, App1  | 361  | 6 | 2.2 | 212 | 2 | US-09-902-540-13151  | Sequence 13151, A  |
| 289 | 6 | 2.2 | 154 | 2 | US-08-973-069-9      | Sequence 9, App1   | 362  | 6 | 2.2 | 213 | 2 | US-09-902-540-12621  | Sequence 12621, A  |
| 290 | 6 | 2.2 | 154 | 2 | US-09-198-452A-247   | Sequence 247, App  | 363  | 6 | 2.2 | 213 | 2 | US-09-830-230A-489   | Sequence 489, App  |
| 291 | 6 | 2.2 | 155 | 2 | US-09-949-016-7932   | Sequence 7932, Ap  | 364  | 6 | 2.2 | 214 | 2 | US-09-248-528-9      | Sequence 9, App1   |
| 292 | 6 | 2.2 | 157 | 1 | US-08-706-214-4      | Sequence 4, App1   | 365  | 6 | 2.2 | 214 | 2 | US-09-549-118-9      | Sequence 9, App1   |
| 293 | 6 | 2.2 | 157 | 2 | US-08-679-493A-6     | Sequence 6, App1   | 366  | 6 | 2.2 | 214 | 2 | US-09-549-111-9      | Sequence 9, App1   |
| 294 | 6 | 2.2 | 158 | 2 | US-08-679-493A-24    | Sequence 24, App1  | 367  | 6 | 2.2 | 214 | 2 | US-09-549-106-9      | Sequence 9, App1   |
| 295 | 6 | 2.2 | 158 | 2 | US-09-543-681A-7445  | Sequence 7445, Ap  | 368  | 6 | 2.2 | 214 | 2 | US-09-550-394-9      | Sequence 9, App1   |
| 296 | 6 | 2.2 | 158 | 2 | US-09-107-433-3527   | Sequence 3527, Ap  | 369  | 6 | 2.2 | 214 | 2 | US-09-252-991A-23492 | Sequence 23492, A  |
| 297 | 6 | 2.2 | 158 | 2 | US-09-438-185A-239   | Sequence 239, App  | 370  | 6 | 2.2 | 214 | 2 | US-09-710-279-1898   | Sequence 1898, Ap  |
| 298 | 6 | 2.2 | 159 | 2 | US-09-252-991A-17625 | Sequence 17625, A  | 371  | 6 | 2.2 | 214 | 2 | US-10-211-689-14     | Sequence 14, App1  |
| 299 | 6 | 2.2 | 160 | 2 | US-09-270-767-58820  | Sequence 58820, A  | 372  | 6 | 2.2 | 217 | 2 | US-09-416-500C-1     | Sequence 1, App1   |
| 300 | 6 | 2.2 | 161 | 1 | US-08-386-819A-25    | Sequence 25, App1  | 373  | 6 | 2.2 | 217 | 2 | US-09-311-021-120    | Sequence 120, App  |
| 301 | 6 | 2.2 | 161 | 2 | US-08-980-357-25     | Sequence 25, App1  | 374  | 6 | 2.2 | 220 | 2 | US-09-328-352-7448   | Sequence 7448, Ap  |
| 302 | 6 | 2.2 | 161 | 2 | US-09-357-375-25     | Sequence 25, App1  | 375  | 6 | 2.2 | 221 | 2 | US-09-605-703B-2640  | Sequence 2640, Ap  |
| 303 | 6 | 2.2 | 163 | 2 | US-09-252-991A-28240 | Sequence 28240, A  | 376  | 6 | 2.2 | 224 | 2 | US-09-710-279-1002   | Sequence 1002, Ap  |
| 304 | 6 | 2.2 | 163 | 2 | US-09-248-796A-20196 | Sequence 20196, A  | 377  | 6 | 2.2 | 224 | 2 | US-09-509-744-7      | Sequence 7, App1   |
| 305 | 6 | 2.2 | 164 | 2 | US-10-104-047-3569   | Sequence 3569, Ap  | 378  | 6 | 2.2 | 226 | 2 | US-09-248-796A-24774 | Sequence 24774, A  |
| 306 | 6 | 2.2 | 164 | 2 | US-10-104-047-3796   | Sequence 3796, Ap  | 379  | 6 | 2.2 | 227 | 2 | US-09-248-796A-15723 | Sequence 15723, A  |
| 307 | 6 | 2.2 | 166 | 2 | US-09-482-273-238    | Sequence 238, App  | 380  | 6 | 2.2 | 228 | 2 | US-09-710-279-360    | Sequence 360, App  |
| 308 | 6 | 2.2 | 166 | 2 | US-09-134-000C-4121  | Sequence 4121, Ap  | 381  | 6 | 2.2 | 228 | 2 | US-09-710-279-1489   | Sequence 1489, App |
| 309 | 6 | 2.2 | 166 | 2 | US-09-583-110-4307   | Sequence 4307, Ap  | 382  | 6 | 2.2 | 228 | 2 | US-09-902-540-14499  | Sequence 14499, A  |
| 310 | 6 | 2.2 | 168 | 2 | US-09-252-991A-23198 | Sequence 23198, A  | 383  | 6 | 2.2 | 229 | 2 | US-09-991-181-258    | Sequence 258, App  |
| 311 | 6 | 2.2 | 168 | 2 | US-09-489-039A-7835  | Sequence 7835, Ap  | 384  | 6 | 2.2 | 229 | 2 | US-09-990-444-258    | Sequence 258, App  |
| 312 | 6 | 2.2 | 169 | 2 | US-09-316-081-4      | Sequence 4, App1   | 385  | 6 | 2.2 | 229 | 2 | US-09-992-333-258    | Sequence 258, App  |
| 313 | 6 | 2.2 | 169 | 2 | US-09-578-458-4      | Sequence 4, App1   | 386  | 6 | 2.2 | 229 | 2 | US-09-992-598-258    | Sequence 258, App  |
| 314 | 6 | 2.2 | 169 | 2 | US-09-522-964A-4     | Sequence 4, App1   | 387  | 6 | 2.2 | 229 | 2 | US-09-989-735-258    | Sequence 258, App  |
| 315 | 6 | 2.2 | 170 | 2 | US-09-708-392-15     | Sequence 15, App1  | 388  | 6 | 2.2 | 229 | 3 | US-09-989-726-258    | Sequence 258, App  |
| 316 | 6 | 2.2 | 170 | 2 | US-09-708-392-17     | Sequence 17, App1  | 389  | 6 | 2.2 | 229 | 3 | US-09-997-514-258    | Sequence 258, App  |
| 317 | 6 | 2.2 | 170 | 2 | US-09-107-433-3486   | Sequence 3486, Ap  | 390  | 6 | 2.2 | 229 | 3 | US-09-989-726-258    | Sequence 258, App  |
| 318 | 6 | 2.2 | 170 | 2 | US-09-949-016-6352   | Sequence 6352, Ap  | 391  | 6 | 2.2 | 229 | 3 | US-09-997-349-258    | Sequence 258, App  |

|     |   |     |     |   |                      |                    |     |   |     |     |   |                      |                   |
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| 392 | 6 | 2.2 | 229 | 3 | US-09-397-653-258    | Sequence 258, App  | 465 | 6 | 2.2 | 282 | 2 | US-09-247-890-16     | Sequence 16, App1 |
| 393 | 6 | 2.2 | 229 | 3 | US-09-989-293A-258   | Sequence 258, App  | 466 | 6 | 2.2 | 282 | 2 | US-09-724-969-16     | Sequence 16, App1 |
| 394 | 6 | 2.2 | 231 | 2 | US-09-270-767-31808  | Sequence 31808, A  | 467 | 6 | 2.2 | 282 | 2 | US-09-724-852-16     | Sequence 16, App1 |
| 395 | 6 | 2.2 | 231 | 2 | US-09-270-767-47025  | Sequence 47025, A  | 468 | 6 | 2.2 | 282 | 2 | US-09-907-794A-127   | Sequence 127, App |
| 396 | 6 | 2.2 | 232 | 2 | US-09-270-767-44865  | Sequence 44865, A  | 469 | 6 | 2.2 | 282 | 2 | US-09-905-125A-127   | Sequence 127, App |
| 397 | 6 | 2.2 | 232 | 2 | US-09-902-540-94882  | Sequence 94882, Ap | 470 | 6 | 2.2 | 282 | 2 | US-09-902-775A-127   | Sequence 127, App |
| 398 | 6 | 2.2 | 232 | 2 | US-09-902-540-9882   | Sequence 12067, A  | 471 | 6 | 2.2 | 282 | 2 | US-09-806-700-127    | Sequence 127, App |
| 399 | 6 | 2.2 | 240 | 2 | US-09-270-767-36552  | Sequence 36552, A  | 472 | 6 | 2.2 | 282 | 2 | US-09-808-847-1      | Sequence 1, App1  |
| 400 | 6 | 2.2 | 240 | 2 | US-09-270-767-51769  | Sequence 51769, A  | 473 | 6 | 2.2 | 282 | 2 | US-09-903-603A-127   | Sequence 127, App |
| 401 | 6 | 2.2 | 241 | 2 | US-09-198-452A-615   | Sequence 615, App  | 474 | 6 | 2.2 | 282 | 2 | US-09-904-920A-127   | Sequence 127, App |
| 402 | 6 | 2.2 | 241 | 2 | US-09-248-796A-1534  | Sequence 15234, A  | 475 | 6 | 2.2 | 282 | 2 | US-09-909-064-127    | Sequence 127, App |
| 403 | 6 | 2.2 | 241 | 2 | US-09-438-185A-575   | Sequence 575, App  | 476 | 6 | 2.2 | 282 | 2 | US-09-905-381A-127   | Sequence 127, App |
| 404 | 6 | 2.2 | 242 | 2 | US-09-684-725-2      | Sequence 2, App1   | 477 | 6 | 2.2 | 282 | 2 | US-09-906-618-127    | Sequence 127, App |
| 405 | 6 | 2.2 | 242 | 2 | US-09-902-540-14422  | Sequence 14422, A  | 478 | 6 | 2.2 | 282 | 2 | US-09-906-646-127    | Sequence 127, App |
| 406 | 6 | 2.2 | 243 | 2 | US-09-140-804-2      | Sequence 2, App1   | 479 | 6 | 2.2 | 282 | 2 | US-09-904-462-127    | Sequence 127, App |
| 407 | 6 | 2.2 | 243 | 2 | US-09-336-536-3      | Sequence 3, App1   | 480 | 6 | 2.2 | 282 | 2 | US-09-902-736A-127   | Sequence 127, App |
| 408 | 6 | 2.2 | 243 | 2 | US-09-686-838B-2     | Sequence 2, App1   | 481 | 6 | 2.2 | 282 | 2 | US-09-906-722A-127   | Sequence 127, App |
| 409 | 6 | 2.2 | 243 | 2 | US-09-866-028-42     | Sequence 42, App1  | 482 | 6 | 2.2 | 282 | 2 | US-09-905-449-127    | Sequence 127, App |
| 410 | 6 | 2.2 | 243 | 2 | US-09-866-028-42     | Sequence 42, App1  | 483 | 6 | 2.2 | 282 | 2 | US-09-903-562B-127   | Sequence 127, App |
| 411 | 6 | 2.2 | 243 | 2 | US-09-944-457-42     | Sequence 42, App1  | 484 | 6 | 2.2 | 282 | 2 | US-09-906-679A-127   | Sequence 127, App |
| 412 | 6 | 2.2 | 243 | 2 | US-09-945-584-42     | Sequence 42, App1  | 485 | 6 | 2.2 | 282 | 3 | US-09-907-841-127    | Sequence 127, App |
| 413 | 6 | 2.2 | 243 | 2 | US-09-944-944-42     | Sequence 42, App1  | 486 | 6 | 2.2 | 283 | 2 | US-09-583-110-3146   | Sequence 3146, Ap |
| 414 | 6 | 2.2 | 243 | 3 | US-09-944-884-42     | Sequence 42, App1  | 487 | 6 | 2.2 | 283 | 2 | US-09-248-796A-14990 | Sequence 14940, A |
| 415 | 6 | 2.2 | 244 | 1 | US-08-762-129-3      | Sequence 3, App1   | 488 | 6 | 2.2 | 283 | 2 | US-09-502-540-13146  | Sequence 13146, A |
| 416 | 6 | 2.2 | 245 | 2 | US-09-724-797-14     | Sequence 14, App1  | 489 | 6 | 2.2 | 286 | 2 | US-09-252-991A-18407 | Sequence 18407, A |
| 417 | 6 | 2.2 | 245 | 2 | US-10-104-047-3466   | Sequence 3466, Ap  | 490 | 6 | 2.2 | 288 | 2 | US-09-270-767-57293  | Sequence 57293, A |
| 418 | 6 | 2.2 | 246 | 2 | US-08-822-774-43     | Sequence 43, App1  | 491 | 6 | 2.2 | 289 | 2 | US-09-270-767-39365  | Sequence 39365, A |
| 419 | 6 | 2.2 | 246 | 2 | US-09-632-711-43     | Sequence 43, App1  | 492 | 6 | 2.2 | 289 | 2 | US-09-270-767-54582  | Sequence 54582, A |
| 420 | 6 | 2.2 | 246 | 2 | US-09-632-703B-43    | Sequence 43, App1  | 493 | 6 | 2.2 | 291 | 2 | US-09-252-991A-22826 | Sequence 22826, A |
| 421 | 6 | 2.2 | 246 | 2 | US-09-632-702-43     | Sequence 43, App1  | 494 | 6 | 2.2 | 292 | 2 | US-09-902-540-9923   | Sequence 9923, Ap |
| 422 | 6 | 2.2 | 246 | 2 | US-09-359-003-43     | Sequence 43, App1  | 495 | 6 | 2.2 | 293 | 2 | US-09-902-540-16212  | Sequence 16212, A |
| 423 | 6 | 2.2 | 246 | 2 | US-09-252-991A-20050 | Sequence 20050, A  | 496 | 6 | 2.2 | 293 | 2 | US-10-088-744A-12    | Sequence 12, App1 |
| 424 | 6 | 2.2 | 246 | 2 | US-09-248-796A-16241 | Sequence 16241, A  | 497 | 6 | 2.2 | 296 | 2 | US-09-270-767-45391  | Sequence 45391, A |
| 425 | 6 | 2.2 | 247 | 2 | US-09-543-681A-6704  | Sequence 6704, Ap  | 498 | 6 | 2.2 | 296 | 2 | US-10-088-744A-10    | Sequence 10, App1 |
| 426 | 6 | 2.2 | 248 | 2 | US-09-031-219-3      | Sequence 3, App1   | 499 | 6 | 2.2 | 297 | 2 | US-09-902-540-12967  | Sequence 12967, A |
| 427 | 6 | 2.2 | 248 | 2 | US-09-660-541-3      | Sequence 3, App1   | 500 | 6 | 2.2 | 298 | 2 | US-09-489-039A-12184 | Sequence 12184, A |
| 428 | 6 | 2.2 | 249 | 2 | US-09-270-767-44289  | Sequence 44289, A  | 501 | 6 | 2.2 | 298 | 2 | US-09-107-433-4360   | Sequence 4360, Ap |
| 429 | 6 | 2.2 | 252 | 2 | US-09-134-001C-4662  | Sequence 4662, A   | 502 | 6 | 2.2 | 299 | 2 | US-09-902-540-15021  | Sequence 15021, A |
| 430 | 6 | 2.2 | 253 | 2 | US-08-858-207A-299   | Sequence 299, App  | 503 | 6 | 2.2 | 302 | 2 | US-09-270-767-46185  | Sequence 46185, A |
| 431 | 6 | 2.2 | 255 | 2 | US-09-902-540-12539  | Sequence 12539, A  | 504 | 6 | 2.2 | 302 | 2 | US-09-198-452A-18    | Sequence 18, App1 |
| 432 | 6 | 2.2 | 260 | 2 | US-09-252-991A-31232 | Sequence 31232, A  | 505 | 6 | 2.2 | 304 | 2 | US-09-438-185A-9     | Sequence 9, App1  |
| 433 | 6 | 2.2 | 261 | 2 | US-09-328-352-6882   | Sequence 6882, Ap  | 506 | 6 | 2.2 | 308 | 2 | US-09-711-164-392    | Sequence 392, App |
| 434 | 6 | 2.2 | 261 | 2 | US-09-248-796A-18760 | Sequence 18760, A  | 507 | 6 | 2.2 | 310 | 2 | US-09-107-433-4360   | Sequence 4360, Ap |
| 435 | 6 | 2.2 | 262 | 2 | US-09-543-681A-7789  | Sequence 7789, Ap  | 508 | 6 | 2.2 | 314 | 2 | US-09-489-039A-8837  | Sequence 8837, Ap |
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| 439 | 6 | 2.2 | 267 | 2 | US-09-668-529A-43    | Sequence 43, App1  | 512 | 6 | 2.2 | 319 | 2 | US-09-489-039A-8116  | Sequence 8116, Ap |
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| 444 | 6 | 2.2 | 267 | 2 | US-09-602-777A-158   | Sequence 158, App  | 517 | 6 | 2.2 | 322 | 2 | US-09-907-794A-201   | Sequence 201, App |
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| 452 | 6 | 2.2 | 274 | 2 | US-09-583-110-5631   | Sequence 3631, Ap  | 525 | 6 | 2.2 | 322 | 2 | US-09-906-618-201    | Sequence 201, App |
| 453 | 6 | 2.2 | 274 | 2 | US-09-602-777A-354   | Sequence 354, App  | 526 | 6 | 2.2 | 322 | 2 | US-09-906-646-201    | Sequence 201, App |
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| 464 | 6 | 2.2 | 281 | 2 | US-09-252-991A-29816 | Sequence 29816, A  | 537 | 6 | 2.2 | 325 | 2 | US-09-605-703B-2110  | Sequence 2110, Ap |



|     |   |     |     |   |                      |                   |      |   |     |     |   |                      |                   |
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| 545 | 6 | 2.2 | 331 | 2 | US-09-903-190-116    | Sequence 116, App | 618  | 6 | 2.2 | 383 | 2 | US-09-949-016-7115   | Sequence 7115, Ap |
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| 549 | 6 | 2.2 | 337 | 2 | US-09-252-991A-26243 | Sequence 26243, A | 622  | 6 | 2.2 | 387 | 2 | US-09-252-991A-22733 | Sequence 23733, A |
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| 557 | 6 | 2.2 | 344 | 2 | US-09-771-161A-173   | Sequence 173, App | 630  | 6 | 2.2 | 395 | 3 | US-09-609-146-25     | Sequence 25, Appl |
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| 561 | 6 | 2.2 | 346 | 2 | US-10-152-886-91     | Sequence 91, Appl | 634  | 6 | 2.2 | 397 | 2 | US-09-949-016-10640  | Sequence 10640, A |
| 562 | 6 | 2.2 | 346 | 5 | PCT-US96-10602-2     | Sequence 2, Appl1 | 635  | 6 | 2.2 | 398 | 2 | US-09-252-991A-19848 | Sequence 19848, A |
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| 566 | 6 | 2.2 | 351 | 1 | US-08-843-530B-31    | Sequence 31, Appl | 639  | 6 | 2.2 | 403 | 1 | US-07-965-285-5      | Sequence 5, Appl1 |
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| 571 | 6 | 2.2 | 356 | 2 | US-09-107-433-3713   | Sequence 3713, Ap | 644  | 6 | 2.2 | 410 | 2 | US-09-198-452A-730   | Sequence 730, App |
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| 573 | 6 | 2.2 | 358 | 1 | US-08-458-970A-11    | Sequence 11, Appl | 646  | 6 | 2.2 | 412 | 2 | US-09-949-016-10101  | Sequence 10101, A |
| 574 | 6 | 2.2 | 358 | 2 | US-09-489-039A-9326  | Sequence 9326, Ap | 647  | 6 | 2.2 | 412 | 2 | US-10-088-744A-8     | Sequence 8, Appl1 |
| 575 | 6 | 2.2 | 358 | 2 | US-09-230-896C-29    | Sequence 29, Appl | 648  | 6 | 2.2 | 412 | 2 | US-10-088-744A-8     | Sequence 8, Appl1 |
| 576 | 6 | 2.2 | 358 | 2 | US-09-248-796A-25048 | Sequence 25048, A | 649  | 6 | 2.2 | 413 | 2 | US-09-270-767-34924  | Sequence 34924, A |
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| 584 | 6 | 2.2 | 364 | 2 | US-09-438-046-13     | Sequence 13, Appl | 657  | 6 | 2.2 | 415 | 2 | US-10-088-744A-2     | Sequence 2, Appl1 |
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| 586 | 6 | 2.2 | 364 | 2 | US-09-830-230A-205   | Sequence 205, App | 659  | 6 | 2.2 | 415 | 3 | US-09-609-146-4      | Sequence 4, Appl1 |
| 587 | 6 | 2.2 | 366 | 1 | US-08-481-377-6      | Sequence 6, Appl1 | 660  | 6 | 2.2 | 416 | 2 | US-09-252-991A-32714 | Sequence 32714, A |
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| 591 | 6 | 2.2 | 366 | 2 | US-09-357-905-9      | Sequence 9, Appl1 | 664  | 6 | 2.2 | 419 | 1 | US-08-574-959A-4     | Sequence 4, Appl1 |
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| 594 | 6 | 2.2 | 366 | 2 | US-09-270-767-48144  | Sequence 48144, A | 667  | 6 | 2.2 | 421 | 2 | US-10-104-047-3550   | Sequence 3520, Ap |
| 595 | 6 | 2.2 | 366 | 2 | US-09-949-016-9795   | Sequence 9795, Ap | 668  | 6 | 2.2 | 422 | 1 | US-08-758-621-12     | Sequence 12, Appl |
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| 597 | 6 | 2.2 | 367 | 5 | PCT-US94-00666-6     | Sequence 6, Appl1 | 670  | 6 | 2.2 | 422 | 2 | US-09-579-174-12     | Sequence 12, Appl |
| 598 | 6 | 2.2 | 367 | 1 | US-08-440-103-17     | Sequence 17, Appl | 671  | 6 | 2.2 | 423 | 2 | US-09-252-991A-19042 | Sequence 19042, A |
| 599 | 6 | 2.2 | 367 | 1 | US-08-440-542-17     | Sequence 17, Appl | 672  | 6 | 2.2 | 423 | 2 | US-09-252-991A-10653 | Sequence 30653, A |
| 600 | 6 | 2.2 | 367 | 1 | US-08-440-542-17     | Sequence 17, Appl | 673  | 6 | 2.2 | 423 | 2 | US-09-438-185A-692   | Sequence 692, App |
| 601 | 6 | 2.2 | 367 | 1 | US-08-440-210-17     | Sequence 17, Appl | 674  | 6 | 2.2 | 424 | 2 | US-09-615-192A-328   | Sequence 328, App |
| 602 | 6 | 2.2 | 367 | 2 | US-09-046-604-17     | Sequence 17, Appl | 675  | 6 | 2.2 | 424 | 2 | US-09-684-855-18     | Sequence 138, App |
| 603 | 6 | 2.2 | 368 | 2 | US-09-489-039A-9556  | Sequence 9556, Ap | 676  | 6 | 2.2 | 424 | 2 | US-09-688-286D-2     | Sequence 2, Appl1 |
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| 606 | 6 | 2.2 | 369 | 2 | US-09-710-279-1610   | Sequence 1610, Ap | 679  | 6 | 2.2 | 429 | 2 | US-08-795-876-44     | Sequence 44, Appl |
| 607 | 6 | 2.2 | 373 | 2 | US-09-538-092-683    | Sequence 683, App | 680  | 6 | 2.2 | 430 | 1 | US-08-290-731C-9     | Sequence 9, Appl1 |
| 608 | 6 | 2.2 | 374 | 2 | US-09-270-767-42761  | Sequence 42761, A | 681  | 6 | 2.2 | 430 | 2 | US-09-902-540-13985  | Sequence 13985, A |
| 609 | 6 | 2.2 | 375 | 1 | US-08-363-255-7      | Sequence 7, Appl1 | 682  | 6 | 2.2 | 431 | 2 | US-08-985-950-14     | Sequence 14, Appl |
| 610 | 6 | 2.2 | 377 | 2 | US-09-252-991A-20479 | Sequence 20479, A | 683  | 6 | 2.2 | 431 | 2 | US-08-985-950-20     | Sequence 20, Appl |

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| 684 | 6 | 2.2 | 431 | 2 | US-09-546-049-14     | Sequence 14, Appl  | 757 | 6 | 2.2 | 481 | 2 | US-09-902-540-15717  | Sequence 15717, A |
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| 689 | 6 | 2.2 | 436 | 2 | US-09-315-444-112    | Sequence 112, App  | 762 | 6 | 2.2 | 482 | 2 | US-09-733-382-4      | Sequence 4, Appl1 |
| 690 | 6 | 2.2 | 436 | 2 | US-09-721-362-112    | Sequence 112, App  | 763 | 6 | 2.2 | 484 | 2 | US-09-949-016-9668   | Sequence 25, Appl |
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| 695 | 6 | 2.2 | 439 | 2 | US-09-546-049-12     | Sequence 12, Appl  | 768 | 6 | 2.2 | 485 | 5 | PCT-US94-03437-4     | Sequence 4, Appl1 |
| 696 | 6 | 2.2 | 439 | 3 | US-10-143-618-8      | Sequence 8, Appl1  | 769 | 6 | 2.2 | 487 | 2 | US-09-949-016-7797   | Sequence 7797, Ap |
| 697 | 6 | 2.2 | 441 | 2 | US-09-134-000C-5475  | Sequence 5475, Ap  | 770 | 6 | 2.2 | 487 | 2 | US-10-033-301-18     | Sequence 18, Appl |
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| 703 | 6 | 2.2 | 446 | 2 | US-09-107-433-4227   | Sequence 4227, Ap  | 776 | 6 | 2.2 | 490 | 2 | US-09-902-735A-132   | Sequence 132, App |
| 704 | 6 | 2.2 | 448 | 2 | US-09-252-991A-24213 | Sequence 24213, A  | 777 | 6 | 2.2 | 490 | 2 | US-09-631-603-13     | Sequence 13, Appl |
| 705 | 6 | 2.2 | 448 | 2 | US-09-361-443-4      | Sequence 4, Appl1  | 778 | 6 | 2.2 | 490 | 2 | US-09-903-603A-132   | Sequence 132, App |
| 706 | 6 | 2.2 | 449 | 2 | US-09-603-208A-284   | Sequence 284, App  | 779 | 6 | 2.2 | 490 | 2 | US-09-904-920A-132   | Sequence 132, App |
| 707 | 6 | 2.2 | 451 | 2 | US-08-996-139-4      | Sequence 4, Appl1  | 780 | 6 | 2.2 | 490 | 2 | US-09-909-064-132    | Sequence 132, App |
| 708 | 6 | 2.2 | 451 | 2 | US-08-995-659-4      | Sequence 4, Appl1  | 781 | 6 | 2.2 | 490 | 2 | US-09-905-381A-132   | Sequence 132, App |
| 709 | 6 | 2.2 | 451 | 2 | US-09-215-649A-4     | Sequence 4, Appl1  | 782 | 6 | 2.2 | 490 | 2 | US-09-906-618-132    | Sequence 132, App |
| 710 | 6 | 2.2 | 451 | 2 | US-09-577-780-4      | Sequence 4, Appl1  | 783 | 6 | 2.2 | 490 | 2 | US-09-906-646-132    | Sequence 132, App |
| 711 | 6 | 2.2 | 451 | 2 | US-09-577-800-4      | Sequence 4, Appl1  | 784 | 6 | 2.2 | 490 | 2 | US-09-904-462-132    | Sequence 132, App |
| 712 | 6 | 2.2 | 451 | 2 | US-09-466-496-4      | Sequence 4, Appl1  | 785 | 6 | 2.2 | 490 | 2 | US-09-902-735A-132   | Sequence 132, App |
| 713 | 6 | 2.2 | 451 | 2 | US-09-871-856-4      | Sequence 4, Appl1  | 786 | 6 | 2.2 | 490 | 2 | US-09-906-722A-132   | Sequence 132, App |
| 714 | 6 | 2.2 | 451 | 2 | US-09-871-291-4      | Sequence 4, Appl1  | 787 | 6 | 2.2 | 490 | 2 | US-09-905-449-132    | Sequence 132, App |
| 715 | 6 | 2.2 | 451 | 2 | US-09-877-650-4      | Sequence 4, Appl1  | 788 | 6 | 2.2 | 490 | 2 | US-09-903-562B-132   | Sequence 132, App |
| 716 | 6 | 2.2 | 451 | 2 | US-09-270-767-59224  | Sequence 59224, A  | 789 | 6 | 2.2 | 490 | 2 | US-09-906-679A-132   | Sequence 132, App |
| 717 | 6 | 2.2 | 451 | 2 | US-09-865-363-4      | Sequence 4, Appl1  | 790 | 6 | 2.2 | 490 | 3 | US-09-907-841-132    | Sequence 132, App |
| 718 | 6 | 2.2 | 451 | 2 | US-09-688-459-4      | Sequence 4, Appl1  | 791 | 6 | 2.2 | 491 | 2 | US-09-543-681A-4195  | Sequence 4195, Ap |
| 719 | 6 | 2.2 | 452 | 2 | US-09-540-236-2370   | Sequence 2370, Ap  | 792 | 6 | 2.2 | 493 | 2 | US-08-996-441B-70    | Sequence 70, Appl |
| 720 | 6 | 2.2 | 459 | 2 | US-09-583-110-5017   | Sequence 5017, Ap  | 793 | 6 | 2.2 | 493 | 2 | US-08-993-722A-70    | Sequence 70, Appl |
| 721 | 6 | 2.2 | 459 | 2 | US-09-769-787-85     | Sequence 85, Appl  | 794 | 6 | 2.2 | 493 | 2 | US-08-993-170A-70    | Sequence 70, Appl |
| 722 | 6 | 2.2 | 461 | 2 | US-09-631-603-10     | Sequence 10, Appl  | 795 | 6 | 2.2 | 493 | 2 | US-08-993-775B-70    | Sequence 70, Appl |
| 723 | 6 | 2.2 | 461 | 2 | US-09-043-944-1      | Sequence 1, Appl1  | 796 | 6 | 2.2 | 493 | 2 | US-09-107-532A-4416  | Sequence 4416, Ap |
| 724 | 6 | 2.2 | 461 | 2 | US-09-043-944-6      | Sequence 6, Appl1  | 797 | 6 | 2.2 | 493 | 2 | US-09-427-770-70     | Sequence 70, Appl |
| 725 | 6 | 2.2 | 461 | 2 | US-10-811-199-1      | Sequence 1, Appl1  | 798 | 6 | 2.2 | 493 | 2 | US-09-427-769-70     | Sequence 70, Appl |
| 726 | 6 | 2.2 | 462 | 2 | US-10-811-199-6      | Sequence 6, Appl1  | 799 | 6 | 2.2 | 494 | 2 | US-09-489-039A-1852  | Sequence 1852, A  |
| 727 | 6 | 2.2 | 462 | 2 | US-09-238-796-2      | Sequence 2, Appl1  | 800 | 6 | 2.2 | 495 | 2 | US-09-252-991A-19278 | Sequence 19278, A |
| 728 | 6 | 2.2 | 462 | 2 | US-09-328-352-4742   | Sequence 4742, Ap  | 801 | 6 | 2.2 | 498 | 2 | US-09-489-039A-7985  | Sequence 7985, Ap |
| 729 | 6 | 2.2 | 467 | 2 | US-09-361-443-2      | Sequence 2, Appl1  | 802 | 6 | 2.2 | 499 | 2 | US-08-426-509A-19    | Sequence 19, Appl |
| 730 | 6 | 2.2 | 467 | 2 | US-09-902-540-15828  | Sequence 15828, A  | 803 | 6 | 2.2 | 499 | 2 | US-08-232-545-19     | Sequence 19, Appl |
| 731 | 6 | 2.2 | 469 | 1 | US-08-313-288B-15    | Sequence 15, Appl  | 804 | 6 | 2.2 | 499 | 2 | US-09-977-261-19     | Sequence 19, Appl |
| 732 | 6 | 2.2 | 469 | 1 | US-09-198-452A-793   | Sequence 793, App  | 805 | 6 | 2.2 | 499 | 5 | PCT-US95-0500B-19    | Sequence 19, Appl |
| 733 | 6 | 2.2 | 469 | 1 | US-09-438-185A-745   | Sequence 745, App  | 806 | 6 | 2.2 | 501 | 2 | US-09-252-991A-31885 | Sequence 31885, A |
| 734 | 6 | 2.2 | 470 | 2 | US-09-107-433-4341   | Sequence 4341, App | 807 | 6 | 2.2 | 502 | 2 | US-09-499-302A-7     | Sequence 7, Appl1 |
| 735 | 6 | 2.2 | 470 | 2 | US-10-164-047-3177   | Sequence 3177, Ap  | 808 | 6 | 2.2 | 503 | 2 | US-08-740-223A-18    | Sequence 18, Appl |
| 736 | 6 | 2.2 | 471 | 2 | US-09-126-420A-20    | Sequence 20, Appl  | 809 | 6 | 2.2 | 503 | 2 | US-09-202-491-4      | Sequence 4, Appl1 |
| 737 | 6 | 2.2 | 471 | 2 | US-09-949-016-7743   | Sequence 7743, Ap  | 810 | 6 | 2.2 | 503 | 2 | US-09-202-491-10     | Sequence 10, Appl |
| 738 | 6 | 2.2 | 471 | 2 | US-09-893-737-186    | Sequence 186, App  | 811 | 6 | 2.2 | 503 | 2 | US-09-709-188-18     | Sequence 18, Appl |
| 739 | 6 | 2.2 | 472 | 2 | US-09-328-352-6296   | Sequence 6296, Ap  | 812 | 6 | 2.2 | 503 | 2 | US-10-225-060-18     | Sequence 18, Appl |
| 740 | 6 | 2.2 | 472 | 5 | PCT-US94-09235-2     | Sequence 2, Appl1  | 813 | 6 | 2.2 | 503 | 2 | US-10-215-224-4      | Sequence 4, Appl1 |
| 741 | 6 | 2.2 | 473 | 1 | US-09-902-540-16631  | Sequence 16631, A  | 814 | 6 | 2.2 | 503 | 2 | US-10-215-224-10     | Sequence 10, Appl |
| 742 | 6 | 2.2 | 474 | 1 | US-08-453-742-2      | Sequence 2, Appl1  | 815 | 6 | 2.2 | 503 | 2 | US-10-214-812-4      | Sequence 4, Appl1 |
| 743 | 6 | 2.2 | 474 | 1 | US-08-454-464-2      | Sequence 2, Appl1  | 816 | 6 | 2.2 | 503 | 2 | US-10-214-812-10     | Sequence 10, Appl |
| 744 | 6 | 2.2 | 474 | 1 | US-08-453-222-2      | Sequence 2, Appl1  | 817 | 6 | 2.2 | 504 | 1 | US-08-457-274A-25    | Sequence 25, Appl |
| 745 | 6 | 2.2 | 474 | 1 | US-08-452-802-2      | Sequence 2, Appl1  | 818 | 6 | 2.2 | 504 | 1 | US-10-018-386-6      | Sequence 6, Appl1 |
| 746 | 6 | 2.2 | 474 | 1 | US-09-949-001-19     | Sequence 19, Appl  | 819 | 6 | 2.2 | 504 | 5 | PCT-US95-0575B-25    | Sequence 25, Appl |
| 747 | 6 | 2.2 | 476 | 1 | US-09-902-540-10728  | Sequence 10728, A  | 820 | 6 | 2.2 | 506 | 2 | US-09-270-767-44797  | Sequence 44797, A |
| 748 | 6 | 2.2 | 477 | 1 | US-08-453-742-27     | Sequence 27, Appl  | 821 | 6 | 2.2 | 508 | 2 | US-09-019-095A-8     | Sequence 8, Appl1 |
| 749 | 6 | 2.2 | 477 | 1 | US-08-454-464-27     | Sequence 27, Appl  | 822 | 6 | 2.2 | 508 | 2 | US-09-984-880-4      | Sequence 4, Appl1 |
| 750 | 6 | 2.2 | 477 | 1 | US-08-453-222-27     | Sequence 27, Appl  | 823 | 6 | 2.2 | 508 | 2 | US-10-277-032-4      | Sequence 4, Appl1 |
| 751 | 6 | 2.2 | 477 | 1 | US-08-452-802-27     | Sequence 27, Appl  | 824 | 6 | 2.2 | 508 | 2 | US-10-681-223-4      | Sequence 4, Appl1 |
| 752 | 6 | 2.2 | 479 | 2 | US-09-723-368-2      | Sequence 2, Appl   | 825 | 6 | 2.2 | 510 | 2 | US-09-270-767-42036  | Sequence 42036, A |
| 753 | 6 | 2.2 | 479 | 2 | US-09-949-016-6278   | Sequence 6278, Ap  | 826 | 6 | 2.2 | 510 | 2 | US-09-949-016-9862   | Sequence 9862, Ap |
| 754 | 6 | 2.2 | 479 | 2 | US-09-902-540-16455  | Sequence 16455, A  | 827 | 6 | 2.2 | 511 | 2 | US-09-302-540-16498  | Sequence 16498, A |
| 755 | 6 | 2.2 | 480 | 2 | US-09-252-991A-19202 | Sequence 19202, A  | 828 | 6 | 2.2 | 513 | 2 | US-09-041-886-28     | Sequence 28, Appl |
| 756 | 6 | 2.2 | 481 | 2 | US-09-902-540-13111  | Sequence 13111, A  | 829 | 6 | 2.2 | 518 | 2 | US-09-206-551-45     | Sequence 45, Appl |

|     |   |     |     |   |                      |                    |     |   |     |     |   |                      |                    |
|-----|---|-----|-----|---|----------------------|--------------------|-----|---|-----|-----|---|----------------------|--------------------|
| 830 | 6 | 2.2 | 521 | 2 | US-09-019-095A-22    | Sequence 22, Appl1 | 903 | 6 | 2.2 | 566 | 1 | US-08-415-823-4      | Sequence 4, Appl1  |
| 831 | 6 | 2.2 | 521 | 2 | US-09-252-991A-27868 | Sequence 27868, A  | 904 | 6 | 2.2 | 566 | 1 | US-09-086-662-4      | Sequence 4, Appl1  |
| 832 | 6 | 2.2 | 522 | 2 | US-09-461-325-220    | Sequence 220, App  | 905 | 6 | 2.2 | 567 | 2 | US-09-198-452A-994   | Sequence 994, App  |
| 833 | 6 | 2.2 | 522 | 2 | US-10-012-542-220    | Sequence 220, App  | 906 | 6 | 2.2 | 568 | 1 | US-08-460-934-6      | Sequence 6, Appl1  |
| 834 | 6 | 2.2 | 522 | 2 | US-10-115-123-220    | Sequence 220, App  | 907 | 6 | 2.2 | 568 | 1 | US-10-094-749-3157   | Sequence 3157, App |
| 835 | 6 | 2.2 | 522 | 2 | US-09-949-016-7563   | Sequence 7563, Ap  | 908 | 6 | 2.2 | 572 | 2 | US-09-252-991A-31661 | Sequence 31661, A  |
| 836 | 6 | 2.2 | 523 | 2 | US-09-910-174B-11    | Sequence 11, Appl1 | 909 | 6 | 2.2 | 573 | 2 | US-09-991-181-340    | Sequence 340, App  |
| 837 | 6 | 2.2 | 523 | 2 | US-09-620-461-11     | Sequence 11, Appl1 | 910 | 6 | 2.2 | 574 | 2 | US-09-990-444-340    | Sequence 340, App  |
| 838 | 6 | 2.2 | 523 | 2 | US-09-930-218-4      | Sequence 4, Appl1  | 911 | 6 | 2.2 | 574 | 2 | US-09-997-333-340    | Sequence 340, App  |
| 839 | 6 | 2.2 | 524 | 2 | US-09-134-001C-4315  | Sequence 4315, Ap  | 912 | 6 | 2.2 | 574 | 2 | US-09-992-598-340    | Sequence 340, App  |
| 840 | 6 | 2.2 | 525 | 2 | US-09-252-991A-29635 | Sequence 29635, A  | 913 | 6 | 2.2 | 574 | 2 | US-09-989-735-340    | Sequence 340, App  |
| 841 | 6 | 2.2 | 525 | 3 | US-10-021-425-34     | Sequence 34, Appl1 | 914 | 6 | 2.2 | 574 | 3 | US-09-989-726-340    | Sequence 340, App  |
| 842 | 6 | 2.2 | 526 | 2 | US-09-019-095A-2     | Sequence 2, Appl1  | 915 | 6 | 2.2 | 574 | 3 | US-09-997-514-340    | Sequence 340, App  |
| 843 | 6 | 2.2 | 526 | 2 | US-09-538-092-408    | Sequence 408, App  | 916 | 6 | 2.2 | 574 | 3 | US-09-989-728-340    | Sequence 340, App  |
| 844 | 6 | 2.2 | 527 | 2 | US-09-930-218-16     | Sequence 16, Appl1 | 917 | 6 | 2.2 | 574 | 3 | US-09-997-349-340    | Sequence 340, App  |
| 845 | 6 | 2.2 | 528 | 1 | US-08-363-255-14     | Sequence 14, Appl1 | 918 | 6 | 2.2 | 574 | 3 | US-09-997-349-340    | Sequence 340, App  |
| 846 | 6 | 2.2 | 528 | 2 | US-09-489-039A-12242 | Sequence 12242, A  | 919 | 6 | 2.2 | 574 | 3 | US-09-997-653-340    | Sequence 340, App  |
| 847 | 6 | 2.2 | 528 | 2 | US-08-624-396B-2     | Sequence 2, Appl1  | 920 | 6 | 2.2 | 577 | 2 | US-09-252-991A-33531 | Sequence 33531, A  |
| 848 | 6 | 2.2 | 529 | 2 | US-09-270-767-43463  | Sequence 43463, A  | 921 | 6 | 2.2 | 578 | 2 | US-09-452-991A-16850 | Sequence 16850, A  |
| 849 | 6 | 2.2 | 530 | 1 | US-08-363-255-2      | Sequence 2, Appl1  | 922 | 6 | 2.2 | 581 | 2 | US-08-961-083-132    | Sequence 132, App  |
| 850 | 6 | 2.2 | 530 | 1 | US-08-363-255-3      | Sequence 3, Appl1  | 922 | 6 | 2.2 | 581 | 2 | US-09-536-784-132    | Sequence 132, App  |
| 851 | 6 | 2.2 | 530 | 1 | US-08-363-255-8      | Sequence 8, Appl1  | 923 | 6 | 2.2 | 579 | 2 | US-09-369-247-61     | Sequence 61, Appl1 |
| 852 | 6 | 2.2 | 530 | 1 | US-08-363-255-9      | Sequence 9, Appl1  | 924 | 6 | 2.2 | 579 | 2 | US-10-062-548-61     | Sequence 61, Appl1 |
| 853 | 6 | 2.2 | 530 | 1 | US-08-363-255-10     | Sequence 10, Appl1 | 925 | 6 | 2.2 | 580 | 2 | US-08-311-731A-289   | Sequence 289, App  |
| 854 | 6 | 2.2 | 530 | 1 | US-09-041-886-29     | Sequence 29, Appl1 | 926 | 6 | 2.2 | 581 | 1 | US-08-724-394A-3     | Sequence 3, Appl1  |
| 855 | 6 | 2.2 | 531 | 2 | US-09-949-016-7044   | Sequence 7044, Ap  | 927 | 6 | 2.2 | 581 | 2 | US-09-536-784-132    | Sequence 132, App  |
| 856 | 6 | 2.2 | 540 | 2 | US-09-621-451-2      | Sequence 2, Appl1  | 928 | 6 | 2.2 | 581 | 2 | US-09-765-271-132    | Sequence 132, App  |
| 857 | 6 | 2.2 | 540 | 2 | US-10-223-355-2      | Sequence 2, Appl1  | 929 | 6 | 2.2 | 581 | 2 | US-09-765-271-132    | Sequence 132, App  |
| 858 | 6 | 2.2 | 540 | 2 | US-09-621-448-2      | Sequence 2, Appl1  | 930 | 6 | 2.2 | 581 | 2 | US-09-765-271-132    | Sequence 132, App  |
| 859 | 6 | 2.2 | 543 | 2 | US-09-902-540-16769  | Sequence 16769, A  | 931 | 6 | 2.2 | 581 | 2 | US-09-765-271-132    | Sequence 132, App  |
| 860 | 6 | 2.2 | 544 | 2 | US-09-902-540-13743  | Sequence 13743, A  | 932 | 6 | 2.2 | 582 | 1 | US-08-989-386-1      | Sequence 1, Appl1  |
| 861 | 6 | 2.2 | 545 | 2 | US-09-902-540-13532  | Sequence 13532, A  | 933 | 6 | 2.2 | 588 | 2 | US-09-949-016-8742   | Sequence 8742, Ap  |
| 862 | 6 | 2.2 | 546 | 2 | US-09-252-991A-23291 | Sequence 23291, A  | 934 | 6 | 2.2 | 589 | 2 | US-09-041-886-31     | Sequence 31, Appl1 |
| 863 | 6 | 2.2 | 547 | 2 | US-10-140-372-10     | Sequence 10, Appl1 | 935 | 6 | 2.2 | 589 | 2 | US-09-248-796B-12246 | Sequence 12246, A  |
| 864 | 6 | 2.2 | 548 | 1 | US-07-675-211-2      | Sequence 2, Appl1  | 936 | 6 | 2.2 | 591 | 2 | US-08-996-139-2      | Sequence 2, Appl1  |
| 865 | 6 | 2.2 | 548 | 1 | US-07-903-047-8      | Sequence 8, Appl1  | 937 | 6 | 2.2 | 591 | 2 | US-08-995-659-2      | Sequence 2, Appl1  |
| 866 | 6 | 2.2 | 548 | 1 | US-07-903-047-8      | Sequence 8, Appl1  | 938 | 6 | 2.2 | 591 | 2 | US-09-215-649A-2     | Sequence 2, Appl1  |
| 867 | 6 | 2.2 | 548 | 1 | US-08-076-042-2      | Sequence 2, Appl1  | 939 | 6 | 2.2 | 591 | 2 | US-09-577-780-2      | Sequence 2, Appl1  |
| 868 | 6 | 2.2 | 548 | 1 | US-08-460-934-2      | Sequence 2, Appl1  | 940 | 6 | 2.2 | 591 | 2 | US-09-577-800-2      | Sequence 2, Appl1  |
| 869 | 6 | 2.2 | 548 | 1 | US-08-782-118-2      | Sequence 2, Appl1  | 941 | 6 | 2.2 | 591 | 2 | US-09-466-496-2      | Sequence 2, Appl1  |
| 870 | 6 | 2.2 | 548 | 2 | US-09-111-752-14     | Sequence 14, Appl1 | 942 | 6 | 2.2 | 591 | 2 | US-09-871-856-2      | Sequence 2, Appl1  |
| 871 | 6 | 2.2 | 548 | 2 | US-09-380-061B-14    | Sequence 14, Appl1 | 943 | 6 | 2.2 | 591 | 2 | US-09-871-291-2      | Sequence 2, Appl1  |
| 872 | 6 | 2.2 | 548 | 2 | US-09-380-061B-16    | Sequence 16, Appl1 | 944 | 6 | 2.2 | 591 | 2 | US-09-871-291-2      | Sequence 2, Appl1  |
| 873 | 6 | 2.2 | 548 | 2 | US-09-380-061B-18    | Sequence 18, Appl1 | 945 | 6 | 2.2 | 591 | 2 | US-09-865-363-2      | Sequence 2, Appl1  |
| 874 | 6 | 2.2 | 548 | 2 | US-08-487-183A-12    | Sequence 12, Appl1 | 946 | 6 | 2.2 | 592 | 2 | US-09-688-459-2      | Sequence 2, Appl1  |
| 875 | 6 | 2.2 | 548 | 2 | US-08-487-183A-14    | Sequence 14, Appl1 | 947 | 6 | 2.2 | 592 | 2 | US-09-252-991A-18472 | Sequence 18472, A  |
| 876 | 6 | 2.2 | 548 | 2 | US-08-487-183A-16    | Sequence 16, Appl1 | 948 | 6 | 2.2 | 592 | 2 | US-09-252-991A-20435 | Sequence 20435, A  |
| 877 | 6 | 2.2 | 548 | 2 | US-09-602-628-17     | Sequence 17, Appl1 | 949 | 6 | 2.2 | 595 | 2 | US-09-452-991A-18995 | Sequence 18995, A  |
| 878 | 6 | 2.2 | 548 | 2 | US-09-396-154-28     | Sequence 28, Appl1 | 950 | 6 | 2.2 | 596 | 3 | US-10-229-346-7      | Sequence 7, Appl1  |
| 879 | 6 | 2.2 | 548 | 2 | US-09-396-154-28     | Sequence 28, Appl1 | 951 | 6 | 2.2 | 597 | 2 | US-08-704-966-2      | Sequence 2, Appl1  |
| 880 | 6 | 2.2 | 548 | 2 | US-09-396-154-29     | Sequence 29, Appl1 | 952 | 6 | 2.2 | 597 | 2 | US-08-705-438-2      | Sequence 2, Appl1  |
| 881 | 6 | 2.2 | 548 | 2 | US-09-581-241A-4     | Sequence 4, Appl1  | 953 | 6 | 2.2 | 597 | 2 | US-09-489-039A-11112 | Sequence 11112, A  |
| 882 | 6 | 2.2 | 548 | 2 | US-09-581-241A-6     | Sequence 6, Appl1  | 954 | 6 | 2.2 | 597 | 3 | US-10-229-346-4      | Sequence 4, Appl1  |
| 883 | 6 | 2.2 | 548 | 2 | US-09-581-241A-8     | Sequence 8, Appl1  | 955 | 6 | 2.2 | 597 | 3 | US-10-229-346-13     | Sequence 13, Appl1 |
| 884 | 6 | 2.2 | 550 | 2 | US-09-039-859-9      | Sequence 9, Appl1  | 956 | 6 | 2.2 | 597 | 3 | US-10-229-346-21     | Sequence 21, Appl1 |
| 885 | 6 | 2.2 | 550 | 2 | US-09-199-637A-202   | Sequence 202, App  | 957 | 6 | 2.2 | 598 | 2 | US-09-310-463-10     | Sequence 10, Appl1 |
| 886 | 6 | 2.2 | 550 | 2 | US-09-396-478A-2     | Sequence 2, Appl1  | 958 | 6 | 2.2 | 598 | 2 | US-08-842-248A-10    | Sequence 10, Appl1 |
| 887 | 6 | 2.2 | 551 | 2 | US-09-252-991A-23694 | Sequence 23694, A  | 959 | 6 | 2.2 | 598 | 3 | US-10-143-618-10     | Sequence 10, Appl1 |
| 888 | 6 | 2.2 | 552 | 2 | US-09-111-752-7      | Sequence 7, Appl1  | 960 | 6 | 2.2 | 598 | 3 | US-10-229-346-9      | Sequence 9, Appl1  |
| 889 | 6 | 2.2 | 552 | 2 | US-09-111-752-10     | Sequence 10, Appl1 | 961 | 6 | 2.2 | 599 | 3 | US-09-328-352-7756   | Sequence 7756, Ap  |
| 890 | 6 | 2.2 | 552 | 2 | US-09-041-886-30     | Sequence 30, Appl1 | 962 | 6 | 2.2 | 600 | 3 | US-10-229-346-15     | Sequence 15, Appl1 |
| 891 | 6 | 2.2 | 554 | 2 | US-09-248-796A-14678 | Sequence 14678, A  | 963 | 6 | 2.2 | 601 | 3 | US-10-229-346-15     | Sequence 15, Appl1 |
| 892 | 6 | 2.2 | 554 | 2 | US-09-438-185A-924   | Sequence 924, App  | 964 | 6 | 2.2 | 602 | 3 | US-09-352-991A-25512 | Sequence 25512, A  |
| 893 | 6 | 2.2 | 554 | 2 | US-10-094-749-2500   | Sequence 2500, Ap  | 965 | 6 | 2.2 | 605 | 2 | US-09-489-039A-14275 | Sequence 14275, A  |
| 894 | 6 | 2.2 | 555 | 2 | US-09-461-325-251    | Sequence 251, App  | 966 | 6 | 2.2 | 606 | 2 | US-09-489-039A-14275 | Sequence 14276, A  |
| 895 | 6 | 2.2 | 555 | 2 | US-10-012-542-251    | Sequence 251, App  | 967 | 6 | 2.2 | 606 | 3 | US-10-229-346-11     | Sequence 11, Appl1 |
| 896 | 6 | 2.2 | 555 | 2 | US-09-535-315-24     | Sequence 251, App  | 968 | 6 | 2.2 | 608 | 2 | US-09-199-637A-201   | Sequence 201, App  |
| 897 | 6 | 2.2 | 555 | 2 | US-10-115-123-251    | Sequence 251, App  | 969 | 6 | 2.2 | 608 | 2 | US-09-252-991A-17946 | Sequence 17946, A  |
| 898 | 6 | 2.2 | 555 | 2 | US-08-462-467B-26    | Sequence 26, Appl1 | 970 | 6 | 2.2 | 609 | 2 | US-09-447-497-12     | Sequence 12, Appl1 |
| 899 | 6 | 2.2 | 556 | 2 | US-09-949-016-6898   | Sequence 6898, Ap  | 971 | 6 | 2.2 | 610 | 2 | US-08-704-966-4      | Sequence 4, Appl1  |
| 900 | 6 | 2.2 | 564 | 2 | US-10-069-540A-2     | Sequence 2, Appl1  | 972 | 6 | 2.2 | 610 | 2 | US-08-705-438-4      | Sequence 4, Appl1  |
| 901 | 6 | 2.2 | 565 | 2 | US-09-328-352-4920   | Sequence 4920, Ap  | 973 | 6 | 2.2 | 613 | 2 | US-09-107-532A-6935  | Sequence 6935, Ap  |
| 902 | 6 | 2.2 | 565 | 2 | US-09-949-016-6902   | Sequence 6902, Ap  | 975 | 6 | 2.2 | 615 | 2 | US-08-985-950-16     | Sequence 16, Appl1 |

|      |   |     |     |   |                      |                   |      |   |     |     |   |                      |                    |
|------|---|-----|-----|---|----------------------|-------------------|------|---|-----|-----|---|----------------------|--------------------|
| 976  | 6 | 2.2 | 615 | 2 | US-08-985-950-18     | Sequence 18, Appl | 1049 | 6 | 2.2 | 651 | 2 | US-08-993-775B-52    | Sequence 52, Appl  |
| 977  | 6 | 2.2 | 615 | 2 | US-09-546-049-16     | Sequence 16, Appl | 1050 | 6 | 2.2 | 651 | 2 | US-08-993-775B-56    | Sequence 56, Appl  |
| 978  | 6 | 2.2 | 615 | 2 | US-09-546-049-18     | Sequence 18, Appl | 1051 | 6 | 2.2 | 651 | 2 | US-08-993-775B-58    | Sequence 58, Appl  |
| 979  | 6 | 2.2 | 616 | 2 | US-08-996-139-6      | Sequence 6, Appl  | 1052 | 6 | 2.2 | 651 | 2 | US-07-941-650A-4     | Sequence 4, Appl   |
| 980  | 6 | 2.2 | 616 | 2 | US-08-995-659-6      | Sequence 6, Appl  | 1053 | 6 | 2.2 | 651 | 2 | US-09-252-991A-18065 | Sequence 18065, A  |
| 981  | 6 | 2.2 | 616 | 2 | US-09-215-649A-6     | Sequence 6, Appl  | 1054 | 6 | 2.2 | 651 | 2 | US-09-427-770-52     | Sequence 52, Appl  |
| 982  | 6 | 2.2 | 616 | 2 | US-09-577-780-6      | Sequence 6, Appl  | 1055 | 6 | 2.2 | 651 | 2 | US-09-427-770-56     | Sequence 56, Appl  |
| 983  | 6 | 2.2 | 616 | 2 | US-09-577-800-6      | Sequence 6, Appl  | 1056 | 6 | 2.2 | 651 | 2 | US-09-427-769-58     | Sequence 58, Appl  |
| 984  | 6 | 2.2 | 616 | 2 | US-09-466-496-6      | Sequence 6, Appl  | 1057 | 6 | 2.2 | 651 | 2 | US-09-427-769-52     | Sequence 52, Appl  |
| 985  | 6 | 2.2 | 616 | 2 | US-09-871-856-6      | Sequence 6, Appl  | 1058 | 6 | 2.2 | 651 | 2 | US-09-427-769-56     | Sequence 56, Appl  |
| 986  | 6 | 2.2 | 616 | 2 | US-09-871-291-6      | Sequence 6, Appl  | 1059 | 6 | 2.2 | 652 | 2 | US-08-996-441B-2     | Sequence 2, Appl   |
| 987  | 6 | 2.2 | 616 | 2 | US-09-877-650-6      | Sequence 6, Appl  | 1060 | 6 | 2.2 | 652 | 2 | US-08-996-441B-4     | Sequence 4, Appl   |
| 988  | 6 | 2.2 | 616 | 2 | US-09-865-363-6      | Sequence 6, Appl  | 1061 | 6 | 2.2 | 652 | 2 | US-08-996-441B-6     | Sequence 6, Appl   |
| 989  | 6 | 2.2 | 616 | 2 | US-09-949-016-6421   | Sequence 6421, Ap | 1062 | 6 | 2.2 | 652 | 2 | US-08-996-441B-8     | Sequence 8, Appl   |
| 990  | 6 | 2.2 | 616 | 2 | US-09-688-459-6      | Sequence 6, Appl  | 1063 | 6 | 2.2 | 652 | 2 | US-08-996-441B-10    | Sequence 10, Appl  |
| 991  | 6 | 2.2 | 616 | 2 | US-09-957-944-2      | Sequence 2, Appl  | 1064 | 6 | 2.2 | 652 | 2 | US-08-996-441B-12    | Sequence 12, Appl  |
| 992  | 6 | 2.2 | 618 | 2 | US-09-934-801-18     | Sequence 18, Appl | 1065 | 6 | 2.2 | 652 | 2 | US-08-996-441B-14    | Sequence 14, Appl  |
| 993  | 6 | 2.2 | 618 | 2 | US-09-934-868-8      | Sequence 8, Appl  | 1066 | 6 | 2.2 | 652 | 2 | US-08-996-441B-16    | Sequence 16, Appl  |
| 994  | 6 | 2.2 | 618 | 2 | US-10-321-210-18     | Sequence 18, Appl | 1067 | 6 | 2.2 | 652 | 2 | US-08-996-441B-18    | Sequence 18, Appl  |
| 995  | 6 | 2.2 | 618 | 2 | US-10-320-874-18     | Sequence 18, Appl | 1068 | 6 | 2.2 | 652 | 2 | US-08-996-441B-20    | Sequence 20, Appl  |
| 996  | 6 | 2.2 | 618 | 2 | US-10-320-924-18     | Sequence 18, Appl | 1069 | 6 | 2.2 | 652 | 2 | US-08-996-441B-22    | Sequence 22, Appl  |
| 997  | 6 | 2.2 | 618 | 2 | US-10-701-200-8      | Sequence 8, Appl  | 1070 | 6 | 2.2 | 652 | 2 | US-08-996-441B-24    | Sequence 24, Appl  |
| 998  | 6 | 2.2 | 622 | 2 | US-09-957-944-10     | Sequence 10, Appl | 1071 | 6 | 2.2 | 652 | 2 | US-08-996-441B-26    | Sequence 26, Appl  |
| 999  | 6 | 2.2 | 623 | 2 | US-09-447-497-11     | Sequence 11, Appl | 1072 | 6 | 2.2 | 652 | 2 | US-08-996-441B-28    | Sequence 28, Appl  |
| 1000 | 6 | 2.2 | 631 | 2 | US-09-543-681A-7242  | Sequence 7242, Ap | 1073 | 6 | 2.2 | 652 | 2 | US-08-996-441B-30    | Sequence 30, Appl  |
| 1001 | 6 | 2.2 | 632 | 2 | US-09-949-016-6976   | Sequence 6976, Ap | 1074 | 6 | 2.2 | 652 | 2 | US-08-996-441B-32    | Sequence 32, Appl  |
| 1002 | 6 | 2.2 | 636 | 1 | US-08-460-934-9      | Sequence 9, Appl  | 1075 | 6 | 2.2 | 652 | 2 | US-08-996-441B-34    | Sequence 34, Appl  |
| 1003 | 6 | 2.2 | 636 | 1 | US-08-782-118-9      | Sequence 9, Appl  | 1076 | 6 | 2.2 | 652 | 2 | US-08-996-441B-36    | Sequence 36, Appl  |
| 1004 | 6 | 2.2 | 636 | 1 | US-09-252-991A-23287 | Sequence 23287, A | 1077 | 6 | 2.2 | 652 | 2 | US-08-996-441B-38    | Sequence 38, Appl  |
| 1005 | 6 | 2.2 | 636 | 2 | US-09-270-767-45245  | Sequence 45245, A | 1078 | 6 | 2.2 | 652 | 2 | US-08-996-441B-40    | Sequence 40, Appl  |
| 1006 | 6 | 2.2 | 637 | 2 | US-09-328-352-8244   | Sequence 8244, Ap | 1079 | 6 | 2.2 | 652 | 2 | US-08-996-441B-42    | Sequence 42, Appl  |
| 1007 | 6 | 2.2 | 638 | 1 | US-08-557-122A-38    | Sequence 38, Appl | 1080 | 6 | 2.2 | 652 | 2 | US-08-996-441B-44    | Sequence 44, Appl  |
| 1008 | 6 | 2.2 | 638 | 2 | US-09-262-666-38     | Sequence 38, Appl | 1081 | 6 | 2.2 | 652 | 2 | US-08-996-441B-46    | Sequence 46, Appl  |
| 1009 | 6 | 2.2 | 638 | 2 | US-09-252-991A-27068 | Sequence 27068, A | 1082 | 6 | 2.2 | 652 | 2 | US-08-996-441B-48    | Sequence 48, Appl  |
| 1010 | 6 | 2.2 | 639 | 2 | US-09-199-637A-200   | Sequence 200, App | 1083 | 6 | 2.2 | 652 | 2 | US-08-996-441B-50    | Sequence 50, Appl  |
| 1011 | 6 | 2.2 | 639 | 2 | US-09-252-991A-26388 | Sequence 26388, A | 1084 | 6 | 2.2 | 652 | 2 | US-08-996-441B-54    | Sequence 54, Appl  |
| 1012 | 6 | 2.2 | 641 | 2 | US-09-199-637A-103   | Sequence 103, App | 1085 | 6 | 2.2 | 652 | 2 | US-08-996-441B-58    | Sequence 58, Appl  |
| 1013 | 6 | 2.2 | 643 | 2 | US-09-199-637A-199   | Sequence 199, App | 1086 | 6 | 2.2 | 652 | 2 | US-08-996-441B-60    | Sequence 60, Appl  |
| 1014 | 6 | 2.2 | 644 | 1 | US-07-828-788A-4     | Sequence 4, Appl  | 1087 | 6 | 2.2 | 652 | 2 | US-08-996-441B-62    | Sequence 62, Appl  |
| 1015 | 6 | 2.2 | 644 | 1 | US-08-072-281-2      | Sequence 2, Appl  | 1088 | 6 | 2.2 | 652 | 2 | US-08-996-441B-64    | Sequence 64, Appl  |
| 1016 | 6 | 2.2 | 644 | 1 | US-08-295-060-2      | Sequence 2, Appl  | 1089 | 6 | 2.2 | 652 | 2 | US-08-996-441B-66    | Sequence 66, Appl  |
| 1017 | 6 | 2.2 | 644 | 1 | US-08-759-446-2      | Sequence 2, Appl  | 1090 | 6 | 2.2 | 652 | 2 | US-08-996-441B-68    | Sequence 68, Appl  |
| 1018 | 6 | 2.2 | 644 | 1 | US-09-027-998A-2     | Sequence 2, Appl  | 1091 | 6 | 2.2 | 652 | 2 | US-08-996-441B-98    | Sequence 98, Appl  |
| 1019 | 6 | 2.2 | 644 | 2 | US-09-696-348-2      | Sequence 2, Appl  | 1092 | 6 | 2.2 | 652 | 2 | US-08-996-441B-108   | Sequence 108, Appl |
| 1020 | 6 | 2.2 | 644 | 2 | US-10-232-441-2      | Sequence 2, Appl  | 1093 | 6 | 2.2 | 652 | 2 | US-08-996-441B-110   | Sequence 110, App  |
| 1021 | 6 | 2.2 | 644 | 2 | US-09-943-692-2      | Sequence 2, Appl  | 1094 | 6 | 2.2 | 652 | 2 | US-08-996-441B-111   | Sequence 111, App  |
| 1022 | 6 | 2.2 | 644 | 3 | US-10-229-346-2      | Sequence 2, Appl  | 1095 | 6 | 2.2 | 652 | 2 | US-08-993-722A-113   | Sequence 113, App  |
| 1023 | 6 | 2.2 | 644 | 5 | PCT-US92-11337-4     | Sequence 4, Appl  | 1096 | 6 | 2.2 | 652 | 2 | US-08-993-722A-2     | Sequence 2, Appl   |
| 1024 | 6 | 2.2 | 645 | 1 | US-08-295-060-4      | Sequence 4, Appl  | 1097 | 6 | 2.2 | 652 | 2 | US-08-993-722A-4     | Sequence 4, Appl   |
| 1025 | 6 | 2.2 | 645 | 2 | US-09-199-637A-253   | Sequence 253, App | 1098 | 6 | 2.2 | 652 | 2 | US-08-993-722A-6     | Sequence 6, Appl   |
| 1026 | 6 | 2.2 | 646 | 2 | US-09-252-991A-26479 | Sequence 26479, A | 1099 | 6 | 2.2 | 652 | 2 | US-08-993-722A-8     | Sequence 8, Appl   |
| 1027 | 6 | 2.2 | 647 | 2 | US-10-094-749-2449   | Sequence 2449, Ap | 1100 | 6 | 2.2 | 652 | 2 | US-08-993-722A-10    | Sequence 10, Appl  |
| 1028 | 6 | 2.2 | 649 | 1 | US-08-871-266B-16    | Sequence 16, Appl | 1101 | 6 | 2.2 | 652 | 2 | US-08-993-722A-12    | Sequence 12, Appl  |
| 1029 | 6 | 2.2 | 649 | 1 | US-09-018-864A-16    | Sequence 16, Appl | 1102 | 6 | 2.2 | 652 | 2 | US-08-993-722A-14    | Sequence 14, Appl  |
| 1030 | 6 | 2.2 | 649 | 2 | US-08-996-441B-109   | Sequence 109, App | 1103 | 6 | 2.2 | 652 | 2 | US-08-993-722A-16    | Sequence 16, Appl  |
| 1031 | 6 | 2.2 | 649 | 2 | US-08-993-722A-109   | Sequence 109, App | 1104 | 6 | 2.2 | 652 | 2 | US-08-993-722A-18    | Sequence 18, Appl  |
| 1032 | 6 | 2.2 | 649 | 2 | US-08-993-170A-109   | Sequence 109, App | 1105 | 6 | 2.2 | 652 | 2 | US-08-993-722A-20    | Sequence 20, Appl  |
| 1033 | 6 | 2.2 | 649 | 2 | US-08-993-775B-109   | Sequence 109, App | 1106 | 6 | 2.2 | 652 | 2 | US-08-993-722A-22    | Sequence 22, Appl  |
| 1034 | 6 | 2.2 | 649 | 2 | US-08-871-267B-22    | Sequence 22, Appl | 1107 | 6 | 2.2 | 652 | 2 | US-08-993-722A-24    | Sequence 24, Appl  |
| 1035 | 6 | 2.2 | 649 | 2 | US-09-618-419-52     | Sequence 22, Appl | 1108 | 6 | 2.2 | 652 | 2 | US-08-993-722A-26    | Sequence 26, Appl  |
| 1036 | 6 | 2.2 | 649 | 2 | US-09-427-770-109    | Sequence 109, App | 1109 | 6 | 2.2 | 652 | 2 | US-08-993-722A-28    | Sequence 28, Appl  |
| 1037 | 6 | 2.2 | 649 | 2 | US-09-427-769-109    | Sequence 109, App | 1110 | 6 | 2.2 | 652 | 2 | US-08-993-722A-30    | Sequence 30, Appl  |
| 1038 | 6 | 2.2 | 650 | 2 | US-09-252-991A-21687 | Sequence 21687, A | 1111 | 6 | 2.2 | 652 | 2 | US-08-993-722A-32    | Sequence 32, Appl  |
| 1039 | 6 | 2.2 | 651 | 1 | US-08-315-468-6      | Sequence 6, Appl  | 1112 | 6 | 2.2 | 652 | 2 | US-08-993-722A-34    | Sequence 34, Appl  |
| 1040 | 6 | 2.2 | 651 | 2 | US-08-996-441B-52    | Sequence 52, Appl | 1113 | 6 | 2.2 | 652 | 2 | US-08-993-722A-36    | Sequence 36, Appl  |
| 1041 | 6 | 2.2 | 651 | 2 | US-08-996-441B-56    | Sequence 56, Appl | 1114 | 6 | 2.2 | 652 | 2 | US-08-993-722A-38    | Sequence 38, Appl  |
| 1042 | 6 | 2.2 | 651 | 2 | US-08-996-441B-58    | Sequence 58, Appl | 1115 | 6 | 2.2 | 652 | 2 | US-08-993-722A-40    | Sequence 40, Appl  |
| 1043 | 6 | 2.2 | 651 | 2 | US-08-993-722A-52    | Sequence 52, Appl | 1116 | 6 | 2.2 | 652 | 2 | US-08-993-722A-42    | Sequence 42, Appl  |
| 1044 | 6 | 2.2 | 651 | 2 | US-08-993-722A-56    | Sequence 56, Appl | 1117 | 6 | 2.2 | 652 | 2 | US-08-993-722A-44    | Sequence 44, Appl  |
| 1045 | 6 | 2.2 | 651 | 2 | US-08-993-722A-58    | Sequence 58, Appl | 1118 | 6 | 2.2 | 652 | 2 | US-08-993-722A-46    | Sequence 46, Appl  |
| 1046 | 6 | 2.2 | 651 | 2 | US-08-993-170A-52    | Sequence 52, Appl | 1119 | 6 | 2.2 | 652 | 2 | US-08-993-722A-48    | Sequence 48, Appl  |
| 1047 | 6 | 2.2 | 651 | 2 | US-08-993-170A-56    | Sequence 56, Appl | 1120 | 6 | 2.2 | 652 | 2 | US-08-993-722A-50    | Sequence 50, Appl  |
| 1048 | 6 | 2.2 | 651 | 2 | US-08-993-170A-58    | Sequence 58, Appl | 1121 | 6 | 2.2 | 652 | 2 | US-08-993-722A-54    | Sequence 54, Appl  |



|      |   |     |     |   |                      |                    |      |   |     |     |   |                      |                    |
|------|---|-----|-----|---|----------------------|--------------------|------|---|-----|-----|---|----------------------|--------------------|
| 1268 | 6 | 2.2 | 652 | 2 | US-09-427-769-54     | Sequence 54, Appl  | 1341 | 6 | 2.2 | 711 | 2 | US-09-134-000C-5325  | Sequence 5325, Ap  |
| 1269 | 6 | 2.2 | 652 | 2 | US-09-427-769-60     | Sequence 60, Appl  | 1342 | 6 | 2.2 | 711 | 2 | US-09-964-992A-1     | Sequence 1, Appl1  |
| 1270 | 6 | 2.2 | 652 | 2 | US-09-427-769-62     | Sequence 62, Appl  | 1343 | 6 | 2.2 | 712 | 1 | US-08-587-889-2      | Sequence 2, Appl1  |
| 1271 | 6 | 2.2 | 652 | 2 | US-09-427-769-64     | Sequence 64, Appl  | 1344 | 6 | 2.2 | 712 | 1 | US-08-980-060-5      | Sequence 5, Appl1  |
| 1272 | 6 | 2.2 | 652 | 2 | US-09-427-769-66     | Sequence 66, Appl  | 1345 | 6 | 2.2 | 712 | 2 | US-09-307-185-5      | Sequence 5, Appl1  |
| 1273 | 6 | 2.2 | 652 | 2 | US-09-427-769-68     | Sequence 68, Appl  | 1346 | 6 | 2.2 | 712 | 2 | US-09-773-753-5      | Sequence 5, Appl1  |
| 1274 | 6 | 2.2 | 652 | 2 | US-09-427-769-98     | Sequence 98, Appl  | 1347 | 6 | 2.2 | 712 | 2 | US-09-771-161A-262   | Sequence 262, App  |
| 1275 | 6 | 2.2 | 652 | 2 | US-09-427-769-108    | Sequence 108, App  | 1348 | 6 | 2.2 | 712 | 2 | US-09-771-161A-263   | Sequence 263, App  |
| 1276 | 6 | 2.2 | 652 | 2 | US-09-427-769-110    | Sequence 110, App  | 1349 | 6 | 2.2 | 712 | 2 | US-09-771-161A-264   | Sequence 264, App  |
| 1277 | 6 | 2.2 | 652 | 2 | US-09-427-769-111    | Sequence 111, App  | 1350 | 6 | 2.2 | 712 | 5 | PCT-US96-09193-2     | Sequence 2, Appl1  |
| 1278 | 6 | 2.2 | 652 | 2 | US-09-427-769-113    | Sequence 113, App  | 1351 | 6 | 2.2 | 713 | 2 | US-09-964-992A-2     | Sequence 2, Appl1  |
| 1279 | 6 | 2.2 | 652 | 2 | US-10-232-665-2      | Sequence 2, Appl1  | 1352 | 6 | 2.2 | 714 | 2 | US-09-252-991A-31772 | Sequence 31772, A  |
| 1280 | 6 | 2.2 | 652 | 2 | US-10-232-665-4      | Sequence 4, Appl1  | 1353 | 6 | 2.2 | 717 | 2 | US-09-854-122-49     | Sequence 49, Appl1 |
| 1281 | 6 | 2.2 | 652 | 2 | US-10-232-665-6      | Sequence 6, Appl1  | 1354 | 6 | 2.2 | 724 | 2 | US-09-949-016-10487  | Sequence 10487, A  |
| 1282 | 6 | 2.2 | 652 | 5 | PCT-US92-00040-2     | Sequence 6, Appl1  | 1355 | 6 | 2.2 | 725 | 2 | US-09-902-540-14611  | Sequence 14611, A  |
| 1283 | 6 | 2.2 | 652 | 7 | 5187091-2            | Patent No. 5187091 | 1356 | 6 | 2.2 | 739 | 2 | US-09-328-352-6048   | Sequence 6048, Ap  |
| 1284 | 6 | 2.2 | 653 | 2 | US-08-996-441B-100   | Sequence 100, App  | 1357 | 6 | 2.2 | 743 | 2 | US-09-708-392-1      | Sequence 1, Appl1  |
| 1285 | 6 | 2.2 | 653 | 2 | US-08-993-722A-100   | Sequence 100, App  | 1358 | 6 | 2.2 | 744 | 1 | US-08-764-100-25     | Sequence 25, Appl1 |
| 1286 | 6 | 2.2 | 653 | 2 | US-08-993-170A-100   | Sequence 100, App  | 1359 | 6 | 2.2 | 748 | 2 | US-09-252-991A-21696 | Sequence 21696, A  |
| 1287 | 6 | 2.2 | 653 | 2 | US-08-993-775B-100   | Sequence 100, App  | 1360 | 6 | 2.2 | 749 | 2 | US-09-997-688A-10    | Sequence 10, Appl  |
| 1288 | 6 | 2.2 | 653 | 2 | US-09-377-466B-8     | Sequence 8, Appl1  | 1361 | 6 | 2.2 | 749 | 2 | US-09-086-436-39     | Sequence 39, Appl  |
| 1289 | 6 | 2.2 | 653 | 2 | US-09-377-466B-10    | Sequence 10, Appl  | 1362 | 6 | 2.2 | 749 | 2 | US-08-957-610A-652   | Sequence 652, App  |
| 1290 | 6 | 2.2 | 653 | 2 | US-09-377-466B-12    | Sequence 12, Appl  | 1363 | 6 | 2.2 | 750 | 2 | US-09-949-016-6004   | Sequence 6004, Ap  |
| 1291 | 6 | 2.2 | 653 | 2 | US-09-377-466B-14    | Sequence 14, Appl  | 1364 | 6 | 2.2 | 750 | 2 | US-09-949-016-6781   | Sequence 6781, Ap  |
| 1292 | 6 | 2.2 | 653 | 2 | US-09-377-466B-16    | Sequence 16, Appl  | 1365 | 6 | 2.2 | 750 | 2 | US-09-949-016-6782   | Sequence 6782, Ap  |
| 1293 | 6 | 2.2 | 653 | 2 | US-09-377-466B-18    | Sequence 18, Appl  | 1366 | 6 | 2.2 | 750 | 2 | US-09-949-016-6793   | Sequence 6793, Ap  |
| 1294 | 6 | 2.2 | 653 | 2 | US-09-377-466B-20    | Sequence 20, Appl  | 1367 | 6 | 2.2 | 750 | 2 | US-09-949-016-6793   | Sequence 6793, Ap  |
| 1295 | 6 | 2.2 | 653 | 2 | US-09-377-466B-22    | Sequence 22, Appl  | 1368 | 6 | 2.2 | 751 | 1 | US-08-843-530B-32    | Sequence 32, Appl  |
| 1296 | 6 | 2.2 | 653 | 2 | US-09-377-466B-24    | Sequence 24, Appl  | 1369 | 6 | 2.2 | 751 | 2 | US-09-636-728-29     | Sequence 29, Appl  |
| 1297 | 6 | 2.2 | 653 | 2 | US-09-377-466B-37    | Sequence 37, Appl  | 1370 | 6 | 2.2 | 751 | 2 | US-09-636-728-29     | Sequence 9533, Ap  |
| 1298 | 6 | 2.2 | 653 | 2 | US-09-377-466B-39    | Sequence 39, Appl  | 1371 | 6 | 2.2 | 751 | 2 | US-09-949-016-9533   | Sequence 9534, Ap  |
| 1299 | 6 | 2.2 | 653 | 2 | US-09-427-770-100    | Sequence 100, App  | 1372 | 6 | 2.2 | 751 | 2 | US-09-949-016-9535   | Sequence 9535, Ap  |
| 1300 | 6 | 2.2 | 653 | 2 | US-09-427-769-100    | Sequence 100, App  | 1373 | 6 | 2.2 | 751 | 2 | US-09-949-016-9536   | Sequence 9536, Ap  |
| 1301 | 6 | 2.2 | 653 | 2 | US-10-232-665-8      | Sequence 8, Appl1  | 1374 | 6 | 2.2 | 751 | 2 | US-09-949-016-9537   | Sequence 9537, Ap  |
| 1302 | 6 | 2.2 | 653 | 2 | US-10-232-665-10     | Sequence 10, Appl  | 1375 | 6 | 2.2 | 751 | 2 | US-09-949-016-9538   | Sequence 9538, Ap  |
| 1303 | 6 | 2.2 | 653 | 2 | US-10-232-665-12     | Sequence 12, Appl  | 1376 | 6 | 2.2 | 751 | 2 | US-09-949-016-9539   | Sequence 9539, Ap  |
| 1304 | 6 | 2.2 | 653 | 2 | US-10-232-665-14     | Sequence 14, Appl  | 1377 | 6 | 2.2 | 751 | 2 | US-09-949-016-9540   | Sequence 9540, Ap  |
| 1305 | 6 | 2.2 | 653 | 2 | US-10-232-665-16     | Sequence 16, Appl  | 1378 | 6 | 2.2 | 751 | 2 | US-09-949-016-9541   | Sequence 9541, Ap  |
| 1306 | 6 | 2.2 | 653 | 2 | US-10-232-665-18     | Sequence 18, Appl  | 1379 | 6 | 2.2 | 751 | 2 | US-09-949-016-9542   | Sequence 9542, Ap  |
| 1307 | 6 | 2.2 | 653 | 2 | US-10-232-665-20     | Sequence 20, Appl  | 1380 | 6 | 2.2 | 751 | 2 | US-09-949-016-9543   | Sequence 9543, Ap  |
| 1308 | 6 | 2.2 | 653 | 2 | US-10-232-665-22     | Sequence 22, Appl  | 1381 | 6 | 2.2 | 751 | 2 | US-09-949-016-9544   | Sequence 9544, Ap  |
| 1309 | 6 | 2.2 | 653 | 2 | US-10-232-665-24     | Sequence 24, Appl  | 1382 | 6 | 2.2 | 752 | 2 | US-10-104-047-1975   | Sequence 1975, Ap  |
| 1310 | 6 | 2.2 | 653 | 2 | US-10-232-665-37     | Sequence 37, Appl  | 1383 | 6 | 2.2 | 755 | 2 | US-09-134-000C-6691  | Sequence 6691, Ap  |
| 1311 | 6 | 2.2 | 653 | 2 | US-10-232-665-39     | Sequence 39, Appl  | 1384 | 6 | 2.2 | 758 | 1 | US-08-258-188-2      | Sequence 2, Appl1  |
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| 1462 | 6 | 2.2 | 933  | 2 | US-09-313-677-19     | Sequence 19, Appl1 |
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| 1464 | 6 | 2.2 | 946  | 2 | US-09-252-991A-18989 | Sequence 18989, A  |
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| 1482 | 6 | 2.2 | 1115 | 1 | US-08-568-459A-2     | Sequence 2, Appl1  |
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Sequence 437, App

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US-09-758-759-167

Sequence 167, App

RESULT 1

US-09-991-181-169

Sequence 169, Application US/09991181

Patent No. 6913919

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TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

TITLE OF INVENTION: Acids Encoding the Same

FILE REFERENCE: P2730PIC53

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PRIOR FILING DATE: 1998-05-07

PRIOR APPLICATION NUMBER: 60/087106

PRIOR FILING DATE: 1998-05-28



;; PRIOR APPLICATION NUMBER: 60/092182  
;; PRIOR FILING DATE: 1998-07-09  
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RESULT 2  
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; Sequence 169, Application US/09990444  
; Patent No. 6930170  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
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; APPLICANT: Eaton, Dan L.  
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; APPLICANT: Kijavlin, Ivar J.  
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; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
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; APPLICANT: Matanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: P2730PIC19  
; CURRENT APPLICATION NUMBER: US/09/990,444  
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; PRIOR APPLICATION NUMBER: 60/049787  
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;; PRIOR FILING DATE: 1998-06-17

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PRIOR FILING DATE: 1998-06-26  
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PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091478  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091544  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091519

PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091626  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
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PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 277; DB 2; Length 277;  
Best local Similarity 100.0%; Pred. No. 1,2e-255;  
Matches 277; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MDLVPLQLVLLTLPLPHIMALLGCMPLCKSYPPYIMAVLTPKSNRMESKKRELPS 60  
DB 1 MDLVPLQLVLLTLPLPHIMALLGCMPLCKSYPPYIMAVLTPKSNRMESKKRELPS 60  
QY 61 QIKGLTGASGKVALLELGCGTGANFOFYPPGCRVTCLDPNPHFEKELTSMENRRLQYE 120  
DB 61 QIKGLTGASGKVALLELGCGTGANFOFYPPGCRVTCLDPNPHFEKELTSMENRRLQYE 120  
QY 121 RFVVAAGEDMRQLADGSDMVVCTVLGCSVQSPRXVLQEVRRVLRPGVLFWEHVAEY 180  
DB 121 RFVVAAGEDMRQLADGSDMVVCTVLGCSVQSPRXVLQEVRRVLRPGVLFWEHVAEY 180  
QY 181 GSWAFWQOVFEPTWGHIDGCLTPEWKDLENQFSEIOMEROPPLKMLPVGHING 240  
DB 181 GSWAFWQOVFEPTWGHIDGCLTPEWKDLENQFSEIOMEROPPLKMLPVGHING 240  
QY 241 KAVKQSPSSKALICSPSLQLEQATHPYPLRGT 277  
DB 241 KAVKQSPSSKALICSPSLQLEQATHPYPLRGT 277

RESULT 3  
US-09-997-333-169  
Sequence 169, Application US/09997333  
Patent No. 6953836  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gilbertsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kijavini, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Peoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumaas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730PIC27  
CURRENT APPLICATION NUMBER: US/09/997,333  
CURRENT FILING DATE: 2001-11-15  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16

[illegible]

;; PRIOR APPLICATION NUMBER: 60/090863  
;; PRIOR FILING DATE: 1998-06-26  
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;; PRIOR FILING DATE: 1998-07-01  
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;; PRIOR APPLICATION NUMBER: 60/091982  
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;; PRIOR APPLICATION NUMBER: 60/092182  
;; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 277; DB 2; Length 277;  
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Matches 277; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 121 RFVVAPEEDMROLDGSMDEVVCTLVCSVQSPKXVQCEVRVLRPGCVLFPMENHVAEPY 180  
DB 121 RFVVAPEEDMROLDGSMDEVVCTLVCSVQSPKXVQCEVRVLRPGCVLFPMENHVAEPY 180  
QY 181 GSAFPMQOQFEPTWKIIGGCCITRETWKDLENAQFSEIOMERQPPPLKMLPVGPIMG 240  
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QY 241 KAVKQSPSSKALICSPFSIQLEQATHQPIYLPKGT 277  
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RESULT 4  
US-09-992-598-169  
; Sequence 169, Application US/09992598  
; Patent No. 6956108  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Deenoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gottlsen, Mary B.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kijavlin, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey

;; APPLICANT: Wood, William I.  
;; APPLICANT: Zhang, Zemin  
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
;; TITLE OF INVENTION: Acids Encoding the Same  
;; FILE REFERENCE: P2730P1C20  
;; CURRENT APPLICATION NUMBER: US/09/992,598  
;; CURRENT FILING DATE: 2001-11-14  
;; PRIOR APPLICATION NUMBER: 60/049787  
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;; PRIOR APPLICATION NUMBER: 60/091982  
;; PRIOR FILING DATE: 1998-07-07  
;; PRIOR APPLICATION NUMBER: 60/092182  
;; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 277; DB 2; Length 277;  
Best Local Similarity 100.0%; Pred No. 1.2e-255;  
Matches 277; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 MDLIVPLDLVLVLLTLPLHMLALGCMQPLCKSYPPYLMVAVLTPKSNRMESKKEFLFS 60

Qy 61 QIKGLTGASGKVALLELGGGTGANGFOFYPPGCAVYTLDPNPHKEXLTYSMAENRHLQYE 120  
Db 61 QIKGLTGASGKVALLELGGGTGANGFOFYPPGCAVYTLDPNPHKEXLTYSMAENRHLQYE 120

Qy 121 RFWVARGEDMRDLADSDMDVVVCTVLGVSQSPKVLQEVRYLRGCVLFFMEHYAEFY 180  
Db 121 RFWVARGEDMRDLADSDMDVVVCTVLGVSQSPKVLQEVRYLRGCVLFFMEHYAEFY 180

Qy 181 GSWAFPMQVFEFTWGHIGDCCLTRETWKDLENAGFSEIOMEROPPLKMLPVGPHING 240  
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Qy 241 KAVKQSPSSKALICSPSLQLEQATHOPITYLPLRGT 277  
Db 241 KAVKQSPSSKALICSPSLQLEQATHOPITYLPLRGT 277

RESULT 5  
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; Sequence 169, Application US/09989735  
; Patent No. 6972185  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerlitsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.

APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Matanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C61  
CURRENT APPLICATION NUMBER: US/09/989,735  
CURRENT FILING DATE: 2001-11-19  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
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;; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 277; DB 2; Length 277;  
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QY 61 QIKGLTGASGKVLLEIGCGTGANFOFYPPGCRVTCIDPMPHEKFLTKSMANRHLQYE 120  
DB 61 QIKGLTGASGKVLLEIGCGTGANFOFYPPGCRVTCIDPMPHEKFLTKSMANRHLQYE 120  
QY 121 RFVAVGEGEDRQLADSGMDVYVCTLVLCVSQSPKXVLQEVRRVLRPGVLFMEHVAEPY 180  
DB 121 RFVAVGEGEDRQLADSGMDVYVCTLVLCVSQSPKXVLQEVRRVLRPGVLFMEHVAEPY 180  
QY 181 GSWAFWMOQVFEPTWKIIGGCCITRETWDLNNAQSEIOMEROPPLKMLPVGPHING 240  
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QY 241 KAVKOSPPSKALICSPSLQLEOATHOPIYLPRLRG 277  
DB 241 KAVKOSPPSKALICSPSLQLEOATHOPIYLPRLRG 277

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; Sequence 169, Application US/09989726  
; Patent No. 701811  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Deonys, Luc

;; APPLICANT: Eaton, Dan L.  
;; APPLICANT: Ferrara, Napoleone  
;; APPLICANT: Fong, Sherman  
;; APPLICANT: Gerber, Hanspeter  
;; APPLICANT: Gerlitsen, Mary E.  
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;; APPLICANT: Guiney, Austin L.  
;; APPLICANT: Kljavin, Ivar J.  
;; APPLICANT: Napier, Mary A.  
;; APPLICANT: Pan, James  
;; APPLICANT: Paoni, Nicholas F.  
;; APPLICANT: Roy, Margaret Ann  
;; APPLICANT: Stewart, Timothy A.  
;; APPLICANT: Tumas, Daniel  
;; APPLICANT: Watanabe, Colin K.  
;; APPLICANT: Williams, P. Mickey  
;; APPLICANT: Wood, William I.  
;; APPLICANT: Zhang, Zemin  
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
;; FILE REFERENCE: P2730PIC60  
;; CURRENT APPLICATION NUMBER: US/09/989,726  
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PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 277; DB 3; Length 277;  
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Sequence 169, Application US/09997514  
Patent No. 7019116  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnovers, Luc  
APPLICANT: Eaton, Dan L.  
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APPLICANT: Tumas, Daniel  
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APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE OF INVENTION: Acids Encoding the Same  
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 PRIOR APPLICATION NUMBER: 60/091633  
 PRIOR FILING DATE: 1998-07-02  
 PRIOR APPLICATION NUMBER: 60/091978  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/091982  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/092182  
 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 277; DB 3; Length 277;  
 Best Local Similarity 100.0%; Pred. No. 1.2e-255;  
 Matches 277; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MDILVPLQLVLLVLLTLPRLHMLALGCGWPLCKSYFPYIMAVLTPKSNKMKRELFS 60  
 Db 1 MDILVPLQLVLLVLLTLPRLHMLALGCGWPLCKSYFPYIMAVLTPKSNKMKRELFS 60

QY 61 QIKGLTGASGKVALLELGCGTGANFOYPGCGCVTCLDPPHPEKEFLTSMENRLOYE 120  
DB 61 QIKGLTGASGKVALLELGCGTGANFOYPGCGCVTCLDPPHPEKEFLTSMENRLOYE 120  
QY 121 RFVAVGEMROLDASMDVNVCTLVLCVSQSPRXYLQEVRRVLRPGVLFWEHVAEPPY 180  
DB 121 RFVAVGEMROLDASMDVNVCTLVLCVSQSPRXYLQEVRRVLRPGVLFWEHVAEPPY 180  
QY 181 GSWAFWMOOVFEPTWGHIGGCLTETWMDLENAQFSEIOMEROPPLKMLPVGHING 240  
DB 181 GSWAFWMOOVFEPTWGHIGGCLTETWMDLENAQFSEIOMEROPPLKMLPVGHING 240  
QY 241 KAVKQSPSSKALICSPSIQLEQATHTOPILPLRG 277  
DB 241 KAVKQSPSSKALICSPSIQLEQATHTOPILPLRG 277  
RESULT 9  
US-09-997-349-169  
Sequence 169, Application US/09997349  
Patent No. 7034106  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnovers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerlitsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kijavijn, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730PIC37  
CURRENT APPLICATION NUMBER: US/09/997,349  
PRIOR FILING DATE: 2001-11-15  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
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;; PRIOR APPLICATION NUMBER: 60/091633  
;; PRIOR FILING DATE: 1998-07-02  
;; PRIOR APPLICATION NUMBER: 60/091978  
;; PRIOR FILING DATE: 1998-07-07  
;; PRIOR APPLICATION NUMBER: 60/091982  
;; PRIOR FILING DATE: 1998-07-07  
;; PRIOR APPLICATION NUMBER: 60/092182

;; PRIOR FILING DATE: 1998-07-09  
Query Match 100.0%; Score 277; DB 3; Length 277;  
Best Local Similarity 100.0%; Pred. No. 1,2e-253;  
Matches 277; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MDILVPLQLLVLLTLPLPLMALLCQWPLCKSYFPYMAVLTTPKSNKMKESKKELFS 60  
DB 1 MDILVPLQLLVLLTLPLPLMALLCQWPLCKSYFPYMAVLTTPKSNKMKESKKELFS 60  
QY 61 QIKGLTGASGVALLLELGGGTANFQYPPGCRVTCIDBNPHPEKFLTKSMAENRHLQYE 120  
DB 61 QIKGLTGASGVALLLELGGGTANFQYPPGCRVTCIDBNPHPEKFLTKSMAENRHLQYE 120  
QY 121 RVVAVGEDMRQLAGSNMNVVCTVLCSVSPRKVLQSVRVLRGVLFFWEHVAEY 180  
DB 121 RVVAVGEDMRQLAGSNMNVVCTVLCSVSPRKVLQSVRVLRGVLFFWEHVAEY 180  
QY 181 GSMAFMWQOVFPPTWKHIGDGCCLTRETWKDLENAQFSIOMEROPPLKMLPVGPHING 240  
DB 181 GSMAFMWQOVFPPTWKHIGDGCCLTRETWKDLENAQFSIOMEROPPLKMLPVGPHING 240  
QY 241 KAVKQSFSSKALICSPFSLQLEQATHQPIYPLRGT 277  
DB 241 KAVKQSFSSKALICSPFSLQLEQATHQPIYPLRGT 277  
RESULT 10  
US-09-997-653-169  
; Sequence 169, Application US/09997653  
; Patent No. 7034122  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerder, Hanspeter  
; APPLICANT: Gerltsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kijavlin, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: P2730PIC38  
; CURRENT APPLICATION NUMBER: US/09/997,653  
; CURRENT FILING DATE: 2001-11-15  
; PRIOR APPLICATION NUMBER: 60/049787  
; PRIOR FILING DATE: 1997-06-16  
; PRIOR APPLICATION NUMBER: 60/062250  
; PRIOR FILING DATE: 1997-10-17  
; PRIOR APPLICATION NUMBER: 60/065186  
; PRIOR FILING DATE: 1997-11-12  
; PRIOR APPLICATION NUMBER: 60/065311  
; PRIOR FILING DATE: 1997-11-13  
; PRIOR APPLICATION NUMBER: 60/066770  
; PRIOR FILING DATE: 1997-11-24  
; PRIOR APPLICATION NUMBER: 60/075945  
; PRIOR FILING DATE: 1998-02-25

[illegible]

;; PRIOR APPLICATION NUMBER: 60/091626  
;; PRIOR FILING DATE: 1998-07-02  
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;; PRIOR APPLICATION NUMBER: 60/091978  
;; PRIOR FILING DATE: 1998-07-07  
;; PRIOR APPLICATION NUMBER: 60/091982  
;; PRIOR FILING DATE: 1998-07-07  
;; PRIOR APPLICATION NUMBER: 60/092182  
;; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 277; DB 3; Length 277;  
Best Local Similarity 100.0%; Pred. No. 1,2e-255;

Matches 277; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MDLVLPDLLVLLTLPPLHMLLCWQPLCKSYPPYMAVLTTPKSNRKMESKKRELFS 60  
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QY 61 QIKGLTGASGKVALLELGGGTGANFQYPPGCRVTLCDPVPHEKFLTSMENRHLQYE 120  
DB 61 QIKGLTGASGKVALLELGGGTGANFQYPPGCRVTLCDPVPHEKFLTSMENRHLQYE 120  
QY 121 REVVAEEDMRQLADSMVNVCTLVLCVSQSPKYLQEVRRVLRPGVLFWEHVAEPPY 180  
DB 121 REVVAEEDMRQLADSMVNVCTLVLCVSQSPKYLQEVRRVLRPGVLFWEHVAEPPY 180  
QY 181 GSWAFMQOVFEFTWKHIGDCCLTRETWKLENAQFSEIQMERQPPPLKMLPVGPHING 240  
DB 181 GSWAFMQOVFEFTWKHIGDCCLTRETWKLENAQFSEIQMERQPPPLKMLPVGPHING 240  
QY 241 KAVKQSPSSKALICFSPSLQEQATHQPIYLPRLRT 277  
DB 241 KAVKQSPSSKALICFSPSLQEQATHQPIYLPRLRT 277

## RESULT 11

US-09-989-293A-169

Sequence 169, Application US/09989293A

Patent No. 7034136

GENERAL INFORMATION:

;; APPLICANT: Ashkenazi, Avi J.  
;; APPLICANT: Baker, Kevin P.  
;; APPLICANT: Botstein, David  
;; APPLICANT: Desnoyers, Luc  
;; APPLICANT: Eaton, Dan L.  
;; APPLICANT: Ferrara, Napoleone  
;; APPLICANT: Fong, Sherman  
;; APPLICANT: Gerber, Hanspeter  
;; APPLICANT: Gerltsen, Mary E.  
;; APPLICANT: Goddard, Audrey J.  
;; APPLICANT: Godowski, Paul J.  
;; APPLICANT: Grimaldi, J. Christopher  
;; APPLICANT: Gurney, Austin L.  
;; APPLICANT: Kijavlin, Ivar J.  
;; APPLICANT: Napier, Mary A.  
;; APPLICANT: Pan, James  
;; APPLICANT: Paoni, Nicholas F.  
;; APPLICANT: Roy, Margaret Ann  
;; APPLICANT: Stewart, Timothy A.  
;; APPLICANT: Tumas, Daniel  
;; APPLICANT: Watanabe, Colin K.  
;; APPLICANT: Williams, P. Mickey  
;; APPLICANT: Wood, William I.  
;; APPLICANT: Zhang, Zemin  
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
;; FILE REFERENCE: P2730P166  
;; CURRENT APPLICATION NUMBER: US/09/989,293A  
;; PRIOR FILING DATE: 2001-11-20  
;; PRIOR APPLICATION NUMBER: 60/049787  
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PRIOR APPLICATION NUMBER: 60/090863

PRIOR FILING DATE: 1998-06-26  
PRIOR APPLICATION NUMBER: 60/091360  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091478  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091544  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091519  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091626  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 277; DB 3; Length 277;  
Best Local Similarity 100.0%; Pred. No. 1,2e-255;  
Matches 277; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MDLVPDLQLLVLLTLPLHMLLGGWQPLCKSYFPIYMAVLTTPKSNKMKSKRELPS 60  
DB 1 MDLVPDLQLLVLLTLPLHMLLGGWQPLCKSYFPIYMAVLTTPKSNKMKSKRELPS 60  
QY 61 QIKGLTGASGKVALLELGGGTGANFQYPPGCRVTCIDNPHEKFLTSKMAENRHLQYE 120  
DB 61 QIKGLTGASGKVALLELGGGTGANFQYPPGCRVTCIDNPHEKFLTSKMAENRHLQYE 120  
QY 121 RFVVAPEGDMROLADSGMDVVVCTVLCSVQSPRKVLQEVREVLREGVLFWEHVAEY 180  
DB 121 RFVVAPEGDMROLADSGMDVVVCTVLCSVQSPRKVLQEVREVLREGVLFWEHVAEY 180  
QY 181 GSWAFMWQVFEPTWKHIDGCLTRETWKIDJENAFQFSIQMERQPPPLKMPVGHING 240  
DB 181 GSWAFMWQVFEPTWKHIDGCLTRETWKIDJENAFQFSIQMERQPPPLKMPVGHING 240  
QY 241 KAVKQSPSSKALICFSPSLQLEQATHOPILPLRG 277  
DB 241 KAVKQSPSSKALICFSPSLQLEQATHOPILPLRG 277

RESULT 12  
US-08-905-223-436  
Sequence 436, Application US/08905223  
Patent No. 6222029  
GENERAL INFORMATION:  
APPLICANT: Edwards, Jean-Baptiste D.  
APPLICANT: Duclert, Aymeric  
APPLICANT: Lacroix, Bruno  
TITLE OF INVENTION: 5' ESTS FOR SECRETED PROTEINS  
NUMBER OF SEQUENCES: 503  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Knobbe, Martens, Olson & Bear  
STREET: 501 West Broadway  
CITY: San Diego  
STATE: California  
COUNTRY: USA  
ZIP: 92101-3505  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: Windows  
SOFTWARE: Word  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/905,223  
FILING DATE:  
CLASSIFICATION: 536  
ATTORNEY/AGENT INFORMATION:  
NAME: Israelisen, Ned A.



REGISTRATION NUMBER: 29,655  
REFERENCE/DOCKET NUMBER:  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (619) 235-8550  
TELEFAX: (619) 235-0176  
INFORMATION FOR SEQ ID NO: 436:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 151 amino acids  
TYPE: AMINO ACID  
TOPOLOGY: LINEAR  
MOLECULE TYPE: PROTEIN  
ORIGINAL SOURCE:  
ORGANISM: Homo Sapiens  
TISSUE TYPE: Brain  
FEATURE:  
NAME/KEY: sig\_peptide  
LOCATION: -23..-1  
IDENTIFICATION METHOD: Von Heijne matrix  
OTHER INFORMATION: score 7.5  
US-08-905-223-436

Query Match 47.3%; Score 131; DB 2; Length 151;  
Best Local Similarity 100.0%; Pred. No. 7.9e-117;  
Matches 131; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 MDILVPLQLLVLLLTPLHLMLLGCWQPLCKSYFPYLMVLTPKSNRMESKKRELFS 60  
DB 1 MDILVPLQLLVLLLTPLHLMLLGCWQPLCKSYFPYLMVLTPKSNRMESKKRELFS 60

OY 61 QIRGLGASGKVALLEIGCGTGANFOYPPGCRVTCIDPDPHPEKPLTKSMANRHLQYE 120  
DB 61 QIRGLGASGKVALLEIGCGTGANFOYPPGCRVTCIDPDPHPEKPLTKSMANRHLQYE 120

OY 121 RPYVAPGEDMR 131  
DB 121 RPYVAPGEDMR 131

RESULT 13  
US-09-621-976-4227  
Sequence 4227, Application US/09621976  
Patent No. 6639063  
GENERAL INFORMATION:  
APPLICANT: Dumas Milne Edwards, J. B.  
APPLICANT: Jobert, S.  
APPLICANT: Giordano, J. Y.  
TITLE OF INVENTION: ESTs and Encoded Human Proteins.  
FILE REFERENCE: GENSET.054PR2  
CURRENT APPLICATION NUMBER: US/09/621,976  
CURRENT FILING DATE: 2000-07-21  
NUMBER OF SEQ ID NOS: 19335  
SOFTWARE: Patent.pm  
SEQ ID NO 4227  
LENGTH: 158  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: SIGNAL  
LOCATION: -29..-1  
US-09-621-976-4227

Query Match 4.3%; Score 12; DB 2; Length 158;  
Best Local Similarity 100.0%; Pred. No. 0.0018;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 139 DVVVCITVLICSV 150  
DB 139 DVVVCITVLICSV 150

RESULT 14  
US-09-252-991A-19858

Sequence 19858, Application US/09252991A  
Patent No. 6551795  
GENERAL INFORMATION:  
APPLICANT: Marc J. Rubenfield et al.  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
FILE REFERENCE: 107196.136  
CURRENT APPLICATION NUMBER: US/09/252,991A  
CURRENT FILING DATE: 1999-02-18  
PRIOR APPLICATION NUMBER: US 60/074,788  
PRIOR FILING DATE: 1998-02-18  
PRIOR APPLICATION NUMBER: US 60/094,190  
PRIOR FILING DATE: 1998-07-27  
NUMBER OF SEQ ID NOS: 33142  
SEQ ID NO 19858  
LENGTH: 281  
TYPE: PRT  
ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-19858

Query Match 3.6%; Score 10; DB 2; Length 281;  
Best Local Similarity 100.0%; Pred. No. 0.24;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 161 RRVLRPGVVL 170  
DB 151 RRVLRPGVVL 160

RESULT 15  
US-09-902-540-12005  
Sequence 12005, Application US/09902540  
Patent No. 6833447  
GENERAL INFORMATION:  
APPLICANT: Goldman, Barry S.  
APPLICANT: Hinkle, Gregory J.  
APPLICANT: Slater, Steven C.  
APPLICANT: Wiegand, Roger C.  
TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof  
FILE REFERENCE: 38-10(15849)B  
CURRENT APPLICATION NUMBER: US/09/902,540  
CURRENT FILING DATE: 2001-07-10  
PRIOR APPLICATION NUMBER: 60/217,883  
PRIOR FILING DATE: 2000-07-10  
NUMBER OF SEQ ID NOS: 16825  
SEQ ID NO 12005  
LENGTH: 147  
TYPE: PRT  
ORGANISM: Myxococcus xanthus  
US-09-902-540-12005

Query Match 3.2%; Score 9; DB 2; Length 147;  
Best Local Similarity 100.0%; Pred. No. 1.2;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 162 RVLRRPGVVL 170  
DB 36 RVLRRPGVVL 44

RESULT 16  
US-09-252-991A-20270  
Sequence 20270, Application US/09252991A  
Patent No. 6551795  
GENERAL INFORMATION:  
APPLICANT: Marc J. Rubenfield et al.  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
FILE REFERENCE: 107196.136  
CURRENT APPLICATION NUMBER: US/09/252,991A  
CURRENT FILING DATE: 1999-02-18  
PRIOR APPLICATION NUMBER: US 60/074,788  
PRIOR FILING DATE: 1998-02-18

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; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 20270
; LENGTH: 254
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-20270

Query Match
Best Local Similarity 100.0%; Score 8; DB 2; Length 254;
Pred. No. 18;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 162 LRLPGGV 169
Db 124 LRLPGGV 131

RESULT 17
US-09-583-110-3689
; Sequence 3689, Application US/09583110
; Patent No. 6699703
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al.
; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
; FILE REFERENCE: PATH00-07A
; CURRENT APPLICATION NUMBER: US/09/583,110
; CURRENT FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/107,433
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/085,131
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: US 60/051,553
; PRIOR FILING DATE: 1997-07-02
; NUMBER OF SEQ ID NOS: 5322
; SEQ ID NO 3689
; LENGTH: 257
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-09-583-110-3689

Query Match
Best Local Similarity 100.0%; Score 8; DB 2; Length 257;
Pred. No. 18;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 75 LELGCGTG 82
Db 49 LELGCGTG 56

RESULT 18
US-09-107-433-4547
; Sequence 4547, Application US/09107433
; Patent No. 6800744
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID
; SEQUENCES RELATING TO STREPTOCOCCUS PNEUMONIAE FOR DIAGN
; THERAPEUTICS
; NUMBER OF SEQUENCES: 5206
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD-ROM ISO9660
; COMPUTER: <Unknown>
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: <Unknown>
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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,433
; FILING DATE: 30-Jun-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/085131
; FILING DATE: May 12, 1998
; APPLICATION NUMBER: 60/051553
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Ariniello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-011
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 4547:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 267 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHEICAL: YES
; ORIGINAL SOURCE:
; ORGANISM: Streptococcus pneumoniae
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (8) LOCATION 1...267
; SEQUENCE DESCRIPTION: SEQ ID NO: 4547:
US-09-107-433-4547

Query Match
Best Local Similarity 100.0%; Score 8; DB 2; Length 267;
Pred. No. 19;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 75 LELGCGTG 82
Db 59 LELGCGTG 66

RESULT 19
US-09-252-991A-22426
; Sequence 22426, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 22426
; LENGTH: 436
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-22426

Query Match
Best Local Similarity 100.0%; Score 8; DB 2; Length 436;
Pred. No. 29;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 164 LRLPGVLF 171
Db 366 LRLPGVLF 373

RESULT 20
US-09-902-540-14332
; Sequence 14332, Application US/09902540
```

Patent No. 6833447  
GENERAL INFORMATION:  
APPLICANT: Goldman, Barry S.  
APPLICANT: Hinkle, Gregory J.  
APPLICANT: Slater, Steven C.  
APPLICANT: Wiegand, Roger C.  
TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof  
FILE REFERENCE: 38-10(15849)B  
CURRENT APPLICATION NUMBER: US/09/902,540  
CURRENT FILING DATE: 2001-07-10  
PRIOR APPLICATION NUMBER: 60/217,883  
PRIOR FILING DATE: 2000-07-10  
NUMBER OF SEQ ID NOS: 16825  
SEQ ID NO 14332  
LENGTH: 1484  
TYPE: PRT  
ORGANISM: Myxococcus xanthus  
US-09-902-540-14332

Query Match 2.9%; Score 8; DB 2; Length 1484;  
Best Local Similarity 100.0%; Pred. No. 87;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 75 LEIGCGTG 82  
|||||  
Db 1113 LEIGCGTG 1120

RESULT 21  
US-08-978-404B-30  
Sequence 30, Application US/08978404B  
Patent No. 5968782  
GENERAL INFORMATION:  
APPLICANT: Stevens, Richard L.  
TITLE OF INVENTION: MAST CELL PROTEASE THAT CLEAVES  
NUMBER OF SEQUENCES: 74  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.  
STREET: 600 Atlantic Avenue  
CITY: Boston  
STATE: MA  
COUNTRY: U.S.A.  
ZIP: 02210-2211  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FASTSEQ for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/978,404B  
FILING DATE: 25-NOV-97  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/032,354  
FILING DATE: 04-DEC-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Plumer, Elizabeth R.  
REGISTRATION NUMBER: 36,637  
REFERENCE/DOCKET NUMBER: B0801/7090  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-720-3500  
TELEFAX: 617-720-2441  
TELEX:  
INFORMATION FOR SEQ ID NO: 30:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: No. 5968782e  
US-08-978-404B-30

Query Match 2.5%; Score 7; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 15;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 13 LLLTLPL 19  
|||||  
Db 5 LLLTLPL 11

RESULT 22  
US-09-831-683B-36  
Sequence 36, Application US/09831683B  
Patent No. 6891083  
GENERAL INFORMATION:  
APPLICANT: E. I. du Pont de Nemours and Company  
TITLE OF INVENTION: Plant Aminoacyl-tRNA Synthetases  
FILE REFERENCE: B81270  
CURRENT APPLICATION NUMBER: US/09/831,683B  
CURRENT FILING DATE: 2003-02-20  
PRIOR FILING DATE: 1998-11-10  
PRIOR APPLICATION NUMBER: 60/107,789  
NUMBER OF SEQ ID NOS: 38  
SOFTWARE: Microsoft Office 97  
SEQ ID NO 36  
LENGTH: 48  
TYPE: PRT  
ORGANISM: Glycine max  
US-09-831-683B-36

Query Match 2.5%; Score 7; DB 2; Length 48;  
Best Local Similarity 100.0%; Pred. No. 36;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 154 RKVLQEV 160  
|||||  
Db 9 RKVLQEV 15

RESULT 23  
US-09-991-181-363  
Sequence 363, Application US/09991181  
Patent No. 6913919  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerltzen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kijavlin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
Acids Encoding the Same  
FILE REFERENCE: P2730P1C53  
CURRENT APPLICATION NUMBER: US/09/991,181  
CURRENT FILING DATE: 2001-11-16  
PRIOR APPLICATION NUMBER: 60/049787

[illegible]

;; PRIOR FILING DATE: 1998-06-26  
;; PRIOR APPLICATION NUMBER: 60/090863  
;; PRIOR FILING DATE: 1998-06-26  
;; PRIOR APPLICATION NUMBER: 60/091360  
;; PRIOR FILING DATE: 1998-07-01  
;; PRIOR APPLICATION NUMBER: 60/091478  
;; PRIOR FILING DATE: 1998-07-02  
;; PRIOR APPLICATION NUMBER: 60/091544  
;; PRIOR FILING DATE: 1998-07-01  
;; PRIOR APPLICATION NUMBER: 60/091519  
;; PRIOR FILING DATE: 1998-07-02  
;; PRIOR APPLICATION NUMBER: 60/091626  
;; PRIOR FILING DATE: 1998-07-02  
;; PRIOR APPLICATION NUMBER: 60/091633  
;; PRIOR FILING DATE: 1998-07-02  
;; PRIOR APPLICATION NUMBER: 60/091978  
;; PRIOR FILING DATE: 1998-07-07  
;; PRIOR APPLICATION NUMBER: 60/091982  
;; PRIOR FILING DATE: 1998-07-07  
;; PRIOR APPLICATION NUMBER: 60/092182  
;; PRIOR FILING DATE: 1998-07-09

Query Match 2.5%; Score 7; DB 2; Length 78;  
Best Local Similarity 100.0%; Pred. No. 56;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 11 LVLLTL 17  
Db 7 LVLLTL 13

RESULT 24  
US-09-990-444-363  
; Sequence 363, Application US/09990444

; Patent No. 6930170

; GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi J.

; APPLICANT: Baker, Kevin P.

; APPLICANT: Botstein, David

; APPLICANT: Desnovers, Luc

; APPLICANT: Eaton, Dan L.

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Fong, Sherman

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gerltisen, Mary E.

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, J. Christopher

; APPLICANT: Gurney, Austin L.

; APPLICANT: Kijavlin, Ivar J.

; APPLICANT: Napier, Mary A.

; APPLICANT: Pan, James

; APPLICANT: Paoni, Nicholas F.

; APPLICANT: Roy, Margaret Ann

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Thomas, Daniel

; APPLICANT: Watanabe, Colin K.

; APPLICANT: Williams, P. Mickey

; APPLICANT: Wood, William I.

; APPLICANT: Zhang, Zemin

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; FILE REFERENCE: P2730P1C19

; CURRENT APPLICATION NUMBER: US/09/990,444

; PRIOR FILING DATE: 2001-11-14

; PRIOR APPLICATION NUMBER: 60/049787

; PRIOR FILING DATE: 1997-06-16

; PRIOR APPLICATION NUMBER: 60/062250

; PRIOR FILING DATE: 1997-10-17

; PRIOR APPLICATION NUMBER: 60/065186

; PRIOR FILING DATE: 1997-11-12

; PRIOR APPLICATION NUMBER: 60/065311

; PRIOR FILING DATE: 1997-11-13

;; PRIOR APPLICATION NUMBER: 60/066770  
;; PRIOR FILING DATE: 1997-11-24  
;; PRIOR APPLICATION NUMBER: 60/075945  
;; PRIOR FILING DATE: 1998-02-25  
;; PRIOR APPLICATION NUMBER: 60/078910  
;; PRIOR FILING DATE: 1998-03-20  
;; PRIOR APPLICATION NUMBER: 60/083322  
;; PRIOR FILING DATE: 1998-04-28  
;; PRIOR APPLICATION NUMBER: 60/084600  
;; PRIOR FILING DATE: 1998-05-07  
;; PRIOR APPLICATION NUMBER: 60/087106  
;; PRIOR FILING DATE: 1998-05-28  
;; PRIOR APPLICATION NUMBER: 60/087607  
;; PRIOR FILING DATE: 1998-06-02  
;; PRIOR APPLICATION NUMBER: 60/087609  
;; PRIOR FILING DATE: 1998-06-02  
;; PRIOR APPLICATION NUMBER: 60/087759  
;; PRIOR FILING DATE: 1998-06-02  
;; PRIOR APPLICATION NUMBER: 60/087827  
;; PRIOR FILING DATE: 1998-06-03  
;; PRIOR APPLICATION NUMBER: 60/088021  
;; PRIOR FILING DATE: 1998-06-04  
;; PRIOR APPLICATION NUMBER: 60/088025  
;; PRIOR FILING DATE: 1998-06-04  
;; PRIOR APPLICATION NUMBER: 60/088026  
;; PRIOR FILING DATE: 1998-06-04  
;; PRIOR APPLICATION NUMBER: 60/088028  
;; PRIOR FILING DATE: 1998-06-04  
;; PRIOR APPLICATION NUMBER: 60/088029  
;; PRIOR FILING DATE: 1998-06-04  
;; PRIOR APPLICATION NUMBER: 60/088030  
;; PRIOR FILING DATE: 1998-06-04  
;; PRIOR APPLICATION NUMBER: 60/088033  
;; PRIOR FILING DATE: 1998-06-04  
;; PRIOR APPLICATION NUMBER: 60/088326  
;; PRIOR FILING DATE: 1998-06-05  
;; PRIOR APPLICATION NUMBER: 60/088217  
;; PRIOR FILING DATE: 1998-06-05  
;; PRIOR APPLICATION NUMBER: 60/088202  
;; PRIOR FILING DATE: 1998-06-05  
;; PRIOR APPLICATION NUMBER: 60/088212  
;; PRIOR FILING DATE: 1998-06-05  
;; PRIOR APPLICATION NUMBER: 60/088167  
;; PRIOR FILING DATE: 1998-06-05  
;; PRIOR APPLICATION NUMBER: 60/088202  
;; PRIOR FILING DATE: 1998-06-05  
;; PRIOR APPLICATION NUMBER: 60/088217  
;; PRIOR FILING DATE: 1998-06-05  
;; PRIOR APPLICATION NUMBER: 60/088655  
;; PRIOR FILING DATE: 1998-06-09  
;; PRIOR APPLICATION NUMBER: 60/088734  
;; PRIOR FILING DATE: 1998-06-10  
;; PRIOR APPLICATION NUMBER: 60/088738  
;; PRIOR FILING DATE: 1998-06-10  
;; PRIOR APPLICATION NUMBER: 60/088742  
;; PRIOR FILING DATE: 1998-06-10  
;; PRIOR APPLICATION NUMBER: 60/088810  
;; PRIOR FILING DATE: 1998-06-10  
;; PRIOR APPLICATION NUMBER: 60/088824  
;; PRIOR FILING DATE: 1998-06-10  
;; PRIOR APPLICATION NUMBER: 60/088826  
;; PRIOR FILING DATE: 1998-06-10  
;; PRIOR APPLICATION NUMBER: 60/088858  
;; PRIOR FILING DATE: 1998-06-11  
;; PRIOR APPLICATION NUMBER: 60/088876  
;; PRIOR FILING DATE: 1998-06-11  
;; PRIOR APPLICATION NUMBER: 60/089105  
;; PRIOR FILING DATE: 1998-06-12  
;; PRIOR APPLICATION NUMBER: 60/089440  
;; PRIOR FILING DATE: 1998-06-16  
;; PRIOR APPLICATION NUMBER: 60/089512  
;; PRIOR FILING DATE: 1998-06-16  
;; PRIOR APPLICATION NUMBER: 60/089514  
;; PRIOR FILING DATE: 1998-06-16  
;; PRIOR APPLICATION NUMBER: 60/089532

PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089538  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089598  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089599  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089600  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089653  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089801  
PRIOR FILING DATE: 1998-06-18  
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PRIOR FILING DATE: 1998-07-09

Query Match 2.5%; Score 7; DB 2; Length 78;  
Best Local Similarity 100.0%; Pred. No. 56;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 11 LVLLTL 17  
Db 7 LVLLTL 13

RESULT 25  
US-09-997-333-363  
Sequence 363, Application US/09997333  
Patent No. 6953836  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gertlisen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kijavrin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tuma, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730PIC27  
CURRENT APPLICATION NUMBER: US/09/997,333  
CURRENT FILING DATE: 2001-11-15  
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Query Match      2.5%; Score 7; DB 2; Length 78;
Best Local Similarity 100.0%; Pred. No. 56;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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; Patent No. 6956108
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; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
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; APPLICANT: Gurney, Austin L.
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; APPLICANT: Napier, Mary A.
; APPLICANT: Paoni, Nicholas P.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730P1C20
; CURRENT APPLICATION NUMBER: US/09/992, 598
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PRIOR APPLICATION NUMBER: 60/091978  
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PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 2.5%; Score 7; DB 2; Length 78;  
Best Local Similarity 100.0%; Pred. No. 56;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 11 LVLLLT 17  
Db 7 LVLLLT 13  
RESULT 27  
US-09-989-735-363  
; Sequence 363, Application US/09989735  
; Patent No. 6972185  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerlitsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kijavlin, Ivar J.  
; APPLICANT: Napier, Mary A.  
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; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Matanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: P2730P1C61  
; CURRENT APPLICATION NUMBER: US/09/989,735  
; CURRENT FILING DATE: 2001-11-19  
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Query Match 2.5%; Score 7; DB 2; Length 78;  
Best Local Similarity 100.0%; Pred. No. 56;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 11 LVLLLL 17  
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Db 7 LVLLTL 13

RESULT 28  
US-09-989-726-363  
Sequence 363, Application US/09989726  
Patent No. 7018811  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gottlieb, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kijavits, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tuma, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C60  
CURRENT APPLICATION NUMBER: US/09/989, 726  
PRIOR FILING DATE: 2001-11-19  
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Query Match 2.5%; Score 7; DB 3; Length 78;  
Best Local Similarity 100.0%; Pred. No. 56;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 7 LVLLTL 13

RESULT 29  
US-09-997-514-363  
; Sequence 363, Application US/09997514  
; Patent No. 7019116

;; GENERAL INFORMATION:  
;; APPLICANT: Ashkenazi, Avi J.  
;; APPLICANT: Baker, Kevin P.  
;; APPLICANT: Botstein, David  
;; APPLICANT: Desnoyers, Luc  
;; APPLICANT: Eaton, Dan L.  
;; APPLICANT: Ferrara, Napoleone  
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;; APPLICANT: Matanabe, Colin K.  
;; APPLICANT: Williams, P. Mickey  
;; APPLICANT: Wood, William I.  
;; APPLICANT: Zhang, Zemin  
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
;; FILE REFERENCE: P2730P1C46  
;; CURRENT APPLICATION NUMBER: US/09/997,514  
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Query Match 2.5%; Score 7; DB 3; Length 78;  
Best Local Similarity 100.0%; Pred. No. 56;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 11 LVLLTL 17  
Db 7 LVLLTL 13

RESULT 30  
US-09-989-728-363  
; Sequence 363, Application US/09989728  
; Patent No. 7029873  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone

APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
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APPLICANT: Gurney, Austin L.  
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APPLICANT: Nadler, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Matanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
ACIDS  
FILE REFERENCE: P2730P1C72  
CURRENT APPLICATION NUMBER: US/09/989,728  
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; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match      2.5%; Score 7; DB 3; Length 78;
Best Local Similarity 100.0%; Pred. No. 56;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      11 LVLLTL 17
Db      7 LVLLTL 13

RESULT 31
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; Sequence 363, Application US/09997349
; Patent No. 7034106
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gettisen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
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; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tamas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730P1C37
; CURRENT APPLICATION NUMBER: US/09/997,349
; PRIOR FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: 60/049787
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APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
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APPLICANT: Tumas, Daniel

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APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730PIC38  
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Query Match 2.5%; Score 7; DB 3; Length 78;  
Best Local Similarity 100.0%; Pred. No. 56;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 33  
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; Sequence 363, Application US/09989293A  
; Patent No. 7034136  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Getter, Hanspeter  
; APPLICANT: Gerltsen, Mary E.  
; APPLICANT: Goddard, Audrey  
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; APPLICANT: Grimaldi, J. Christopher  
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; APPLICANT: Napier, Mary A.  
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; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: P2730PlC66

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;; PRIOR APPLICATION NUMBER: 60/062250  
;; PRIOR FILING DATE: 1997-10-17  
;; PRIOR APPLICATION NUMBER: 60/065186  
;; PRIOR FILING DATE: 1997-11-12  
;; PRIOR APPLICATION NUMBER: 60/065311  
;; PRIOR FILING DATE: 1997-11-13  
;; PRIOR APPLICATION NUMBER: 60/066770  
;; PRIOR FILING DATE: 1997-11-24  
;; PRIOR APPLICATION NUMBER: 60/075945  
;; PRIOR FILING DATE: 1998-02-25  
;; PRIOR APPLICATION NUMBER: 60/078910  
;; PRIOR FILING DATE: 1998-03-20  
;; PRIOR APPLICATION NUMBER: 60/083322  
;; PRIOR FILING DATE: 1998-04-28  
;; PRIOR APPLICATION NUMBER: 60/084600  
;; PRIOR FILING DATE: 1998-05-07  
;; PRIOR APPLICATION NUMBER: 60/087106  
;; PRIOR FILING DATE: 1998-05-28  
;; PRIOR APPLICATION NUMBER: 60/087607  
;; PRIOR FILING DATE: 1998-06-02  
;; PRIOR APPLICATION NUMBER: 60/087609  
;; PRIOR FILING DATE: 1998-06-02  
;; PRIOR APPLICATION NUMBER: 60/087759  
;; PRIOR FILING DATE: 1998-06-02  
;; PRIOR APPLICATION NUMBER: 60/087827  
;; PRIOR FILING DATE: 1998-06-03  
;; PRIOR APPLICATION NUMBER: 60/088021  
;; PRIOR FILING DATE: 1998-06-04  
;; PRIOR APPLICATION NUMBER: 60/088025  
;; PRIOR FILING DATE: 1998-06-04  
;; PRIOR APPLICATION NUMBER: 60/088026  
;; PRIOR FILING DATE: 1998-06-04  
;; PRIOR APPLICATION NUMBER: 60/088028  
;; PRIOR FILING DATE: 1998-06-04  
;; PRIOR APPLICATION NUMBER: 60/088029  
;; PRIOR FILING DATE: 1998-06-04  
;; PRIOR APPLICATION NUMBER: 60/088030  
;; PRIOR FILING DATE: 1998-06-04  
;; PRIOR APPLICATION NUMBER: 60/088033  
;; PRIOR FILING DATE: 1998-06-04  
;; PRIOR APPLICATION NUMBER: 60/088326  
;; PRIOR FILING DATE: 1998-06-04  
;; PRIOR APPLICATION NUMBER: 60/088167  
;; PRIOR FILING DATE: 1998-06-05  
;; PRIOR APPLICATION NUMBER: 60/088202  
;; PRIOR FILING DATE: 1998-06-05  
;; PRIOR APPLICATION NUMBER: 60/088212  
;; PRIOR FILING DATE: 1998-06-05  
;; PRIOR APPLICATION NUMBER: 60/088217  
;; PRIOR FILING DATE: 1998-06-05  
;; PRIOR APPLICATION NUMBER: 60/088655  
;; PRIOR FILING DATE: 1998-06-09  
;; PRIOR APPLICATION NUMBER: 60/088734  
;; PRIOR FILING DATE: 1998-06-10  
;; PRIOR APPLICATION NUMBER: 60/088738  
;; PRIOR FILING DATE: 1998-06-10  
;; PRIOR APPLICATION NUMBER: 60/088742  
;; PRIOR FILING DATE: 1998-06-10  
;; PRIOR APPLICATION NUMBER: 60/088810  
;; PRIOR FILING DATE: 1998-06-10  
;; PRIOR APPLICATION NUMBER: 60/088824  
;; PRIOR FILING DATE: 1998-06-10  
;; PRIOR APPLICATION NUMBER: 60/088826  
;; PRIOR FILING DATE: 1998-06-10  
;; PRIOR APPLICATION NUMBER: 60/088858  
;; PRIOR FILING DATE: 1998-06-11  
;; PRIOR APPLICATION NUMBER: 60/088861  
;; PRIOR FILING DATE: 1998-06-11  
;; PRIOR APPLICATION NUMBER: 60/088876

PRIOR FILING DATE: 1998-06-11  
PRIOR APPLICATION NUMBER: 60/089105  
PRIOR FILING DATE: 1998-06-12  
PRIOR APPLICATION NUMBER: 60/089440  
PRIOR FILING DATE: 1998-06-16  
PRIOR APPLICATION NUMBER: 60/089512  
PRIOR FILING DATE: 1998-06-16  
PRIOR APPLICATION NUMBER: 60/089514  
PRIOR FILING DATE: 1998-06-16  
PRIOR APPLICATION NUMBER: 60/089532  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089538  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089598  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089599  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089600  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089653  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089801  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/089907  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/089908  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/089947  
PRIOR FILING DATE: 1998-06-19  
PRIOR APPLICATION NUMBER: 60/089948  
PRIOR FILING DATE: 1998-06-19  
PRIOR APPLICATION NUMBER: 60/089952  
PRIOR FILING DATE: 1998-06-19  
PRIOR APPLICATION NUMBER: 60/090246  
PRIOR FILING DATE: 1998-06-22  
PRIOR APPLICATION NUMBER: 60/090252  
PRIOR FILING DATE: 1998-06-22  
PRIOR APPLICATION NUMBER: 60/090254  
PRIOR FILING DATE: 1998-06-22  
PRIOR APPLICATION NUMBER: 60/090349  
PRIOR FILING DATE: 1998-06-23  
PRIOR APPLICATION NUMBER: 60/090355  
PRIOR FILING DATE: 1998-06-23  
PRIOR APPLICATION NUMBER: 60/090439  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090431  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090435  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090444  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090445  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090472  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090535  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090540  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090542  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090557  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090676  
PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090678  
PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090690  
PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090694  
PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090695  
PRIOR FILING DATE: 1998-06-25

PRIOR APPLICATION NUMBER: 60/090696  
PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090862  
PRIOR FILING DATE: 1998-06-26  
PRIOR APPLICATION NUMBER: 60/090863  
PRIOR FILING DATE: 1998-06-26  
PRIOR APPLICATION NUMBER: 60/091360  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091478  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091544  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091519  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091626  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 2.5%; Score 7; DB 3; Length 78;  
Best Local Similarity 100.0%; Pred. No. 56;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 11 LVLLTL 17  
Db 7 LVLLTL 13

RESULT 34  
US-09-266-965-2  
Sequence 2, Application US/09266965  
Patent No. 645348  
GENERAL INFORMATION:  
APPLICANT: Sherman, D  
APPLICANT: Mao, Y  
APPLICANT: Varoglu, M  
APPLICANT: He, M  
TITLE OF INVENTION: Mitomycin biosynthetic gene cluster  
FILE REFERENCE: 600.456051  
CURRENT APPLICATION NUMBER: US/09/266,965  
CURRENT FILING DATE: 1999-03-12  
EARLIER APPLICATION NUMBER: US 08/624,447  
EARLIER FILING DATE: 1996-08-19  
EARLIER APPLICATION NUMBER: PCT/US94/11279  
EARLIER FILING DATE: 1994-10-06  
EARLIER APPLICATION NUMBER: US 08/133,963  
EARLIER FILING DATE: 1993-10-07  
NUMBER OF SEQ ID NOS: 145  
SOFTWARE: FastrSeq for Windows Version 3.0  
SEQ ID NO 2  
LENGTH: 114  
TYPE: PRT  
ORGANISM: Streptomyces lavendulae  
US-09-266-965-2

Query Match 2.5%; Score 7; DB 2; Length 114;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 162 RVLRPG 168  
Db 96 RVLRPG 102

RESULT 35  
US-09-266-965-1

Sequence 1, Application US/09266965  
Patent No. 6495348  
GENERAL INFORMATION:  
APPLICANT: Sherman, D  
APPLICANT: Mao, Y  
APPLICANT: Varoglu, M  
APPLICANT: He, M  
APPLICANT: Sheldon, P  
TITLE OF INVENTION: Mitomycin biosynthetic gene cluster  
FILE REFERENCE: 600,456US1  
CURRENT APPLICATION NUMBER: US/09/266,965  
EARLIER FILING DATE: 1999-03-12  
EARLIER APPLICATION NUMBER: US 08/624,447  
EARLIER FILING DATE: 1996-08-19  
EARLIER APPLICATION NUMBER: PCT/US94/11279  
EARLIER FILING DATE: 1994-10-06  
EARLIER APPLICATION NUMBER: US 08/133,963  
EARLIER FILING DATE: 1993-10-07  
NUMBER OF SEQ ID NOS: 145  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 1  
LENGTH: 115  
TYPE: PRT  
ORGANISM: Streptomyces lavendulae  
US-09-266-965-1

Query Match 2.5%; Score 7; DB 2; Length 115;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 162 RVLRPGG 168  
Db 97 RVLRPGG 103

RESULT 36  
US-09-266-965-6  
Sequence 6, Application US/09266965  
Patent No. 6495348  
GENERAL INFORMATION:  
APPLICANT: Sherman, D  
APPLICANT: Mao, Y  
APPLICANT: Varoglu, M  
APPLICANT: He, M  
APPLICANT: Sheldon, P  
TITLE OF INVENTION: Mitomycin biosynthetic gene cluster  
FILE REFERENCE: 600,456US1  
CURRENT APPLICATION NUMBER: US/09/266,965  
EARLIER FILING DATE: 1999-03-12  
EARLIER APPLICATION NUMBER: US 08/624,447  
EARLIER FILING DATE: 1996-08-19  
EARLIER APPLICATION NUMBER: PCT/US94/11279  
EARLIER FILING DATE: 1994-10-06  
EARLIER APPLICATION NUMBER: US 08/133,963  
EARLIER FILING DATE: 1993-10-07  
NUMBER OF SEQ ID NOS: 145  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 6  
LENGTH: 115  
TYPE: PRT  
ORGANISM: Amycolatopsis mediterranei  
US-09-266-965-6

Query Match 2.5%; Score 7; DB 2; Length 115;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 162 RVLRPGG 168  
Db 97 RVLRPGG 103

RESULT 37

US-09-081-320-29  
Sequence 29, Application US/09081320  
Patent No. 6093544  
GENERAL INFORMATION:  
APPLICANT: Gonsalves, Dennis  
APPLICANT: Meng, Baozhong  
TITLE OF INVENTION: RUPESTRIS STEM PITTING ASSOCIATED VIRUS  
TITLE OF INVENTION: NUCLEIC ACIDS, PROTEINS, AND THEIR USES  
NUMBER OF SEQUENCES: 54  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/081,320  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/047,147  
FILING DATE: 20-MAY-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/069,902  
FILING DATE: 17-DEC-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/1722  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 29:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 116 amino acids  
TYPE: amino acid  
STRANDEDNESS: linear  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-081-320-29

Query Match 2.5%; Score 7; DB 2; Length 116;  
Best Local Similarity 100.0%; Pred. No. 80;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 244 KOSFPSS 250  
Db 62 KOSFPSS 68

RESULT 38  
US-09-574-141A-29  
Sequence 29, Application US/09574141A  
Patent No. 6395490  
GENERAL INFORMATION:  
APPLICANT: Gonsalves, Dennis  
APPLICANT: Meng, Baozhong  
TITLE OF INVENTION: RUPESTRIS STEM PITTING ASSOCIATED VIRUS  
TITLE OF INVENTION: NUCLEIC ACIDS, PROTEINS, AND THEIR USES  
FILE REFERENCE: 07678/035005  
CURRENT APPLICATION NUMBER: US/09/574,141A  
CURRENT FILING DATE: 2000-05-18  
PRIOR APPLICATION NUMBER: 60/047,147  
PRIOR FILING DATE: 1997-05-20  
PRIOR APPLICATION NUMBER: 60/069,902  
PRIOR FILING DATE: 1997-12-17  
PRIOR APPLICATION NUMBER: 09/081,320

; PRIOR FILING DATE: 1998-05-19  
; NUMBER OF SEQ ID NOS: 97  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 29  
; LENGTH: 116  
; TYPE: PR  
; ORGANISM: Rupestris stem pitting associated virus  
US-09-574-141A-29

Query Match 2.5%; Score 7; DB 2; Length 116;  
Best Local Similarity 100.0%; Pred. No. 80;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 244 KOSFPSS 250  
Db 62 KOSFPSS 68

RESULT 39  
US-09-707-780-29  
; Sequence 29, Application US/09707780  
; Patent No. 6399308  
; GENERAL INFORMATION:  
; APPLICANT: Gonsalves, Dennis  
; APPLICANT: Meng, Baozhong  
; TITLE OF INVENTION: RUPESTRIS STEM PITTING ASSOCIATED VIRUS  
; FILE REFERENCE: 07678/035006  
; CURRENT APPLICATION NUMBER: US/09/707,780  
; PRIOR FILING DATE: 2000-11-07  
; PRIOR APPLICATION NUMBER: 09/081,320  
; PRIOR FILING DATE: 1998-05-19  
; PRIOR APPLICATION NUMBER: 60/047,147  
; PRIOR FILING DATE: 1997-05-20  
; PRIOR APPLICATION NUMBER: 60/069,902  
; PRIOR FILING DATE: 1997-12-17  
; NUMBER OF SEQ ID NOS: 54  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 29  
; LENGTH: 116  
; TYPE: PR  
; ORGANISM: Rupestris stem pitting associated virus  
US-09-707-780-29

Query Match 2.5%; Score 7; DB 2; Length 116;  
Best Local Similarity 100.0%; Pred. No. 80;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 244 KOSFPSS 250  
Db 62 KOSFPSS 68

RESULT 40  
US-09-568-189A-29  
; Sequence 29, Application US/09568189A  
; Patent No. 6716967  
; GENERAL INFORMATION:  
; APPLICANT: Gonsalves, Dennis  
; APPLICANT: Meng, Baozhong  
; TITLE OF INVENTION: RUPESTRIS STEM PITTING ASSOCIATED VIRUS  
; FILE REFERENCE: 07678/035004  
; CURRENT APPLICATION NUMBER: US/09/568,189A  
; PRIOR FILING DATE: 2000-05-09  
; PRIOR APPLICATION NUMBER: 60/047,147  
; PRIOR FILING DATE: 1997-05-20  
; PRIOR APPLICATION NUMBER: 60/069,902  
; PRIOR FILING DATE: 1997-12-17  
; PRIOR APPLICATION NUMBER: 09/081,320  
; NUMBER OF SEQ ID NOS: 97  
; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 29  
; LENGTH: 116  
; TYPE: PR  
; ORGANISM: Rupestris stem pitting associated virus  
US-09-568-189A-29

Query Match 2.5%; Score 7; DB 2; Length 116;  
Best Local Similarity 100.0%; Pred. No. 80;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 244 KOSFPSS 250  
Db 62 KOSFPSS 68

RESULT 41  
US-09-081-320-7  
; Sequence 7, Application US/09081320  
; Patent No. 6093544  
; GENERAL INFORMATION:  
; APPLICANT: Gonsalves, Dennis  
; APPLICANT: Meng, Baozhong  
; TITLE OF INVENTION: RUPESTRIS STEM PITTING ASSOCIATED VIRUS  
; NUMBER OF SEQUENCES: 54  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: Clinton Square, P.O. Box 1051  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/081,320  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/047,147  
; FILING DATE: 20-MAY-1997  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/069,902  
; FILING DATE: 17-DEC-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/1722  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 7:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 117 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-081-320-7

Query Match 2.5%; Score 7; DB 2; Length 117;  
Best Local Similarity 100.0%; Pred. No. 81;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 244 KOSFPSS 250  
Db 63 KOSFPSS 69

RESULT 42



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US-09-574-141A-7
; Sequence 7, Application US/09574141A
; Patent No. 6395490
; GENERAL INFORMATION:
; APPLICANT: Gonsalves, Dennis
; APPLICANT: Meng, Baozhong
; TITLE OF INVENTION: RUPESTRIS STEM PITTING ASSOCIATED VIRUS
; FILE REFERENCE: 07678/035005
; CURRENT APPLICATION NUMBER: US/09/574,141A
; PRIOR FILING DATE: 2000-05-18
; PRIOR APPLICATION NUMBER: 60/047,147
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: 60/069,902
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 09/081,320
; NUMBER OF SEQ ID NOS: 97
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Rupestris stem pitting associated virus
US-09-574-141A-7
```

```
Query Match          2.5%; Score 7; DB 2; Length 117;
Best Local Similarity 100.0%; Pred. No. 81;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY      244 KOSFPSS 250
Db      63 KOSFPSS 69
```

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RESULT 43
US-09-574-141A-74
; Sequence 74, Application US/09574141A
; Patent No. 6395490
; GENERAL INFORMATION:
; APPLICANT: Gonsalves, Dennis
; APPLICANT: Meng, Baozhong
; TITLE OF INVENTION: RUPESTRIS STEM PITTING ASSOCIATED VIRUS
; FILE REFERENCE: 07678/035005
; CURRENT APPLICATION NUMBER: US/09/574,141A
; PRIOR FILING DATE: 2000-05-18
; PRIOR APPLICATION NUMBER: 60/047,147
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: 60/069,902
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 09/081,320
; PRIOR FILING DATE: 1998-05-19
; NUMBER OF SEQ ID NOS: 97
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 74
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Rupestris stem pitting associated virus
US-09-574-141A-74
```

```
Query Match          2.5%; Score 7; DB 2; Length 117;
Best Local Similarity 100.0%; Pred. No. 81;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      244 KOSFPSS 250
Db      63 KOSFPSS 69
```

```
RESULT 44
US-09-707-780-7
; Sequence 7, Application US/09707780
; Patent No. 6399308
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```
; GENERAL INFORMATION:
; APPLICANT: Gonsalves, Dennis
; APPLICANT: Meng, Baozhong
; TITLE OF INVENTION: RUPESTRIS STEM PITTING ASSOCIATED VIRUS
; FILE REFERENCE: 07678/035006
; CURRENT APPLICATION NUMBER: US/09/707,780
; PRIOR FILING DATE: 2000-11-07
; PRIOR APPLICATION NUMBER: 09/081,320
; PRIOR FILING DATE: 1998-05-19
; PRIOR APPLICATION NUMBER: 60/047,147
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: 60/069,902
; PRIOR FILING DATE: 1997-12-17
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Rupestris stem pitting associated virus
US-09-707-780-7
```

```
Query Match          2.5%; Score 7; DB 2; Length 117;
Best Local Similarity 100.0%; Pred. No. 81;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      244 KOSFPSS 250
Db      63 KOSFPSS 69
```

```
RESULT 45
US-09-568-189A-7
; Sequence 7, Application US/09568189A
; Patent No. 6716967
; GENERAL INFORMATION:
; APPLICANT: Gonsalves, Dennis
; APPLICANT: Meng, Baozhong
; TITLE OF INVENTION: RUPESTRIS STEM PITTING ASSOCIATED VIRUS
; FILE REFERENCE: 07678/035004
; CURRENT APPLICATION NUMBER: US/09/568,189A
; PRIOR FILING DATE: 2000-05-09
; PRIOR APPLICATION NUMBER: 60/047,147
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: 60/069,902
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 09/081,320
; PRIOR FILING DATE: 1998-05-19
; NUMBER OF SEQ ID NOS: 97
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Rupestris stem pitting associated virus
US-09-568-189A-7
```

```
Query Match          2.5%; Score 7; DB 2; Length 117;
Best Local Similarity 100.0%; Pred. No. 81;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      244 KOSFPSS 250
Db      63 KOSFPSS 69
```

```
RESULT 46
US-09-568-189A-74
; Sequence 74, Application US/09568189A
; Patent No. 6716967
; GENERAL INFORMATION:
; APPLICANT: Gonsalves, Dennis
; APPLICANT: Meng, Baozhong
```

```
; TITLE OF INVENTION: RUPESTRIS STEM PITTING ASSOCIATED VIRUS
; FILE REFERENCE: 07678/035004
; CURRENT APPLICATION NUMBER: US/09/568,189A
; CURRENT FILING DATE: 2000-05-09
; PRIOR APPLICATION NUMBER: 60/047,147
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: 60/069,902
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 09/081,320
; PRIOR FILING DATE: 1998-05-19
; NUMBER OF SEQ ID NOS: 97
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 74
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Rupestris stem pitting associated virus
US-09-568-189A-74

Query Match
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QY 244 KOSFPS 250
Db 63 KOSFPS 69

RESULT 47
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; Sequence 14686, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 14686
; LENGTH: 128
; TYPE: PRT
; ORGANISM: Myxococcus xanthus
US-09-902-540-14686

Query Match
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Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 162 RVLRPG 168
Db 57 RVLRPG 63

RESULT 48
US-09-327-750F-33
; Sequence 33, Application US/0937750F
; Patent No. 6960440
; GENERAL INFORMATION:
; APPLICANT: Sato, Taka-Aki
; TITLE OF INVENTION: GENE ENCODING NADE, P75NTR-ASSOCIATED CELL DEATH EXECUTOR AND USE
; FILE REFERENCE: 0575/59131
; CURRENT APPLICATION NUMBER: US/09/327,750F
; CURRENT FILING DATE: 1999-06-07
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 33
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; LENGTH: 128
; TYPE: PRT
; ORGANISM: Mouse
US-09-327-750F-33

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Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 89 GEDMROL 95

RESULT 49
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; Sequence 44, Application US/09569611C
; Patent No. 6720182
; GENERAL INFORMATION:
; APPLICANT: SAVITZKY et al.
; TITLE OF INVENTION: ALTERNATIVE SPLICING VARIANTS
; FILE REFERENCE: 2786-0151P
; CURRENT APPLICATION NUMBER: US/09/569,611C
; CURRENT FILING DATE: 2000-05-10
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 44
; LENGTH: 131
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (7)..(7)
; OTHER INFORMATION: Xaa = any amino acid, unknown or other
US-09-569-611C-44

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Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 64 GLTGAG 70
Db 90 GLTGAG 96

RESULT 50
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; Sequence 13794, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
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; SEQ ID NO 13794
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US-09-902-540-13794

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Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 162 RVLRPG 168
Db 57 RVLRPG 63
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Db 105 RVLPG3 111

Search completed: July 28, 2006, 13:55:20  
Job time : 59 secs

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OM protein - protein search, using SW model

Run on: July 28, 2006, 14:05:41 ; Search time 182 Seconds  
(without alignments)  
705.003 Million cell updates/sec

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Post-processing: Listing first 1500 summaries

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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

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| 759        | 12    | 4.3         | 244    | 3  | US-09-731-872-359    | Sequence 359, App    |
| 760        | 12    | 4.3         | 244    | 3  | US-09-374-046-90     | Sequence 90, App     |
| 761        | 12    | 4.3         | 244    | 3  | US-09-876-997-359    | Sequence 359, App    |
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## OM protein - protein search, using sw model

Run on: July 28, 2006, 14:06:01 ; Search time 33 Seconds

(Without alignments)  
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Word size : 6

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Minimum DB seq length: 0

Maximum DB seq length: 200000000

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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

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| 4          | 12    | 4.3         | 244    | 7     | US-11-197-712-359     |
| 5          | 9     | 3.2         | 170    | 7     | US-11-197-712-401     |
| 6          | 8     | 2.9         | 203    | 7     | US-11-330-403-2066    |
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| 110 | 7 | 2.5 | 492 | 7 | US-11-056-3558-13661  | Sequence 13661, A  | 183 | 6 | 2.2 | 78  | 6 | US-10-953-349-26808   | Sequence 26808, A   |
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| 115 | 7 | 2.5 | 500 | 7 | US-11-283-329-98      | Sequence 98, App1  | 188 | 6 | 2.2 | 79  | 7 | US-11-056-3558-98079  | Sequence 98079, A   |
| 116 | 7 | 2.5 | 501 | 7 | US-11-330-403-18753   | Sequence 18753, A  | 189 | 6 | 2.2 | 79  | 7 | US-11-056-3558-98079  | Sequence 109318, A  |
| 117 | 7 | 2.5 | 502 | 7 | US-11-056-3558-47081  | Sequence 47081, A  | 190 | 6 | 2.2 | 80  | 6 | US-10-953-349-32842   | Sequence 32842, A   |
| 118 | 7 | 2.5 | 502 | 7 | US-11-056-3558-48950  | Sequence 48950, A  | 191 | 6 | 2.2 | 85  | 6 | US-10-953-349-32842   | Sequence 26807, A   |
| 119 | 7 | 2.5 | 506 | 7 | US-11-056-3558-71957  | Sequence 71957, A  | 192 | 6 | 2.2 | 86  | 6 | US-10-953-349-19459   | Sequence 19459, A   |
| 120 | 7 | 2.5 | 510 | 6 | US-10-953-349-42137   | Sequence 42137, A  | 193 | 6 | 2.2 | 86  | 6 | US-10-953-349-19459   | Sequence 59649, A   |
| 121 | 7 | 2.5 | 510 | 7 | US-11-056-3558-59483  | Sequence 59483, A  | 194 | 6 | 2.2 | 91  | 7 | US-11-106-014-30      | Sequence 30, App1   |
| 122 | 7 | 2.5 | 511 | 7 | US-11-056-3558-47080  | Sequence 47080, A  | 195 | 6 | 2.2 | 94  | 6 | US-10-953-349-15559   | Sequence 15560, A   |
| 123 | 7 | 2.5 | 511 | 7 | US-11-056-3558-48949  | Sequence 48949, A  | 196 | 6 | 2.2 | 95  | 6 | US-10-953-349-15559   | Sequence 15559, A   |
| 124 | 7 | 2.5 | 512 | 6 | US-10-449-902-45493   | Sequence 45493, A  | 197 | 6 | 2.2 | 99  | 6 | US-11-225-804-5       | Sequence 34421, A   |
| 125 | 7 | 2.5 | 514 | 7 | US-11-056-3558-81966  | Sequence 81966, A  | 198 | 6 | 2.2 | 100 | 7 | US-11-225-804-5       | Sequence 37473, A   |
| 126 | 7 | 2.5 | 515 | 7 | US-11-056-3558-81965  | Sequence 81965, A  | 199 | 6 | 2.2 | 101 | 6 | US-10-449-902-37473   | Sequence 253, App   |
| 127 | 7 | 2.5 | 517 | 7 | US-11-056-3558-45235  | Sequence 45235, A  | 200 | 6 | 2.2 | 108 | 7 | US-11-197-712-253     | Sequence 34180, A   |
| 128 | 7 | 2.5 | 519 | 6 | US-10-526-940-9       | Sequence 9, App11  | 201 | 6 | 2.2 | 110 | 6 | US-10-449-902-34180   | Sequence 35745, A   |
| 129 | 7 | 2.5 | 525 | 7 | US-11-056-3558-38005  | Sequence 38005, A  | 202 | 6 | 2.2 | 113 | 6 | US-10-449-902-35745   | Sequence 12211, A   |
| 130 | 7 | 2.5 | 525 | 7 | US-11-056-3558-47714  | Sequence 47714, A  | 203 | 6 | 2.2 | 116 | 6 | US-10-953-349-12211   | Sequence 21353, A   |
| 131 | 7 | 2.5 | 542 | 6 | US-10-449-902-56129   | Sequence 56129, A  | 204 | 6 | 2.2 | 116 | 6 | US-11-056-3558-21353  | Sequence 21353, A   |
| 132 | 7 | 2.5 | 561 | 6 | US-10-953-349-42136   | Sequence 42136, A  | 205 | 6 | 2.2 | 116 | 7 | US-11-056-3558-49952  | Sequence 49952, A   |
| 133 | 7 | 2.5 | 561 | 6 | US-11-056-3558-59482  | Sequence 59482, A  | 206 | 6 | 2.2 | 116 | 7 | US-11-376-694-38      | Sequence 38, App1   |
| 134 | 7 | 2.5 | 574 | 7 | US-11-056-3558-45234  | Sequence 45234, A  | 207 | 6 | 2.2 | 119 | 6 | US-10-953-349-15558   | Sequence 15558, A   |
| 135 | 7 | 2.5 | 587 | 7 | US-11-056-3558-38004  | Sequence 38004, A  | 208 | 6 | 2.2 | 119 | 6 | US-11-197-712-469     | Sequence 469, App   |
| 136 | 7 | 2.5 | 587 | 7 | US-11-056-3558-47713  | Sequence 47713, A  | 209 | 6 | 2.2 | 120 | 6 | US-10-953-349-25911   | Sequence 25911, A   |
| 137 | 7 | 2.5 | 594 | 7 | US-11-056-3558-39661  | Sequence 39661, A  | 210 | 6 | 2.2 | 120 | 6 | US-10-449-902-46111   | Sequence 46111, A   |
| 138 | 7 | 2.5 | 594 | 7 | US-11-056-3558-102423 | Sequence 102423, A | 211 | 6 | 2.2 | 120 | 6 | US-10-449-902-52539   | Sequence 52539, A   |
| 139 | 7 | 2.5 | 594 | 7 | US-11-056-3558-113662 | Sequence 113662, A | 212 | 6 | 2.2 | 123 | 7 | US-11-056-3558-62681  | Sequence 62681, A   |
| 140 | 7 | 2.5 | 605 | 6 | US-10-449-902-50641   | Sequence 50641, A  | 213 | 6 | 2.2 | 123 | 7 | US-11-056-3558-777    | Sequence 777, App   |
| 141 | 7 | 2.5 | 608 | 7 | US-11-056-3558-47079  | Sequence 47079, A  | 214 | 6 | 2.2 | 124 | 6 | US-10-953-349-34565   | Sequence 34565, A   |
| 142 | 7 | 2.5 | 610 | 6 | US-10-449-902-3050    | Sequence 47050, A  | 215 | 6 | 2.2 | 124 | 7 | US-11-293-697-4584    | Sequence 4584, App  |
| 143 | 7 | 2.5 | 610 | 7 | US-11-121-154-22      | Sequence 22, App1  | 216 | 6 | 2.2 | 125 | 6 | US-11-056-3558-11623  | Sequence 11623, A   |
| 144 | 7 | 2.5 | 610 | 7 | US-11-056-3558-13660  | Sequence 13660, A  | 217 | 6 | 2.2 | 125 | 6 | US-10-449-902-52334   | Sequence 52334, A   |
| 145 | 7 | 2.5 | 611 | 7 | US-11-056-3558-48948  | Sequence 48948, A  | 218 | 6 | 2.2 | 129 | 7 | US-11-056-3558-776    | Sequence 776, App   |
| 146 | 7 | 2.5 | 613 | 6 | US-10-953-349-22135   | Sequence 22135, A  | 219 | 6 | 2.2 | 131 | 6 | US-10-953-349-27526   | Sequence 27526, A   |
| 147 | 7 | 2.5 | 613 | 7 | US-11-056-3558-59481  | Sequence 59481, A  | 220 | 6 | 2.2 | 132 | 6 | US-10-449-902-29685   | Sequence 29685, A   |
| 148 | 7 | 2.5 | 616 | 6 | US-10-449-902-55178   | Sequence 55178, A  | 221 | 6 | 2.2 | 132 | 7 | US-11-056-3558-775    | Sequence 775, App   |
| 149 | 7 | 2.5 | 621 | 6 | US-10-374-7804-2284   | Sequence 2284, App | 222 | 6 | 2.2 | 133 | 6 | US-10-953-349-25376   | Sequence 25376, A   |
| 150 | 7 | 2.5 | 621 | 7 | US-11-056-3558-45233  | Sequence 45233, A  | 223 | 6 | 2.2 | 135 | 6 | US-10-953-349-25375   | Sequence 25375, A   |
| 151 | 7 | 2.5 | 622 | 7 | US-11-056-3558-39660  | Sequence 39660, A  | 224 | 6 | 2.2 | 136 | 6 | US-10-953-349-34564   | Sequence 34564, A   |
| 152 | 7 | 2.5 | 622 | 7 | US-11-056-3558-102422 | Sequence 102422, A | 225 | 6 | 2.2 | 136 | 7 | US-11-056-3558-11622  | Sequence 11622, A   |
| 153 | 7 | 2.5 | 622 | 7 | US-11-056-3558-113661 | Sequence 113661, A | 226 | 6 | 2.2 | 137 | 6 | US-10-953-349-25374   | Sequence 25374, A   |
| 154 | 7 | 2.5 | 623 | 7 | US-11-056-3558-39659  | Sequence 39659, A  | 227 | 6 | 2.2 | 138 | 6 | US-10-449-902-38108   | Sequence 38108, A   |
| 155 | 7 | 2.5 | 623 | 7 | US-11-056-3558-102421 | Sequence 102421, A | 228 | 6 | 2.2 | 141 | 7 | US-11-056-3558-951    | Sequence 951, App   |
| 156 | 7 | 2.5 | 623 | 7 | US-11-056-3558-113660 | Sequence 113660, A | 229 | 6 | 2.2 | 143 | 6 | US-10-449-902-46288   | Sequence 46288, A   |
| 157 | 7 | 2.5 | 631 | 6 | US-10-374-7804-2432   | Sequence 2432, App | 230 | 6 | 2.2 | 144 | 6 | US-10-953-349-31764   | Sequence 31764, A   |
| 158 | 7 | 2.5 | 631 | 7 | US-11-056-3558-96374  | Sequence 96374, A  | 231 | 6 | 2.2 | 144 | 6 | US-10-449-902-47123   | Sequence 47123, A   |
| 159 | 7 | 2.5 | 633 | 6 | US-10-374-7804-2740   | Sequence 2740, App | 232 | 6 | 2.2 | 145 | 6 | US-10-953-349-27525   | Sequence 27525, A   |
| 160 | 7 | 2.5 | 633 | 7 | US-11-056-3558-45500  | Sequence 45500, A  | 233 | 6 | 2.2 | 145 | 7 | US-11-056-3558-85334  | Sequence 85334, App |
| 161 | 7 | 2.5 | 633 | 7 | US-11-056-3558-48118  | Sequence 48118, A  | 234 | 6 | 2.2 | 150 | 6 | US-11-056-3558-24028  | Sequence 24028, A   |
| 162 | 7 | 2.5 | 633 | 7 | US-11-056-3558-48253  | Sequence 48253, A  | 235 | 6 | 2.2 | 150 | 6 | US-10-953-349-33889   | Sequence 33889, A   |
| 163 | 7 | 2.5 | 633 | 7 | US-11-056-3558-81964  | Sequence 81964, A  | 236 | 6 | 2.2 | 151 | 6 | US-10-449-902-40367   | Sequence 40367, A   |
| 164 | 7 | 2.5 | 639 | 7 | US-11-056-3558-38003  | Sequence 38003, A  | 237 | 6 | 2.2 | 152 | 6 | US-10-511-937-2442    | Sequence 2442, App  |
| 165 | 7 | 2.5 | 639 | 7 | US-11-056-3558-47712  | Sequence 47712, A  | 238 | 6 | 2.2 | 154 | 6 | US-10-449-902-29926   | Sequence 29926, A   |
| 166 | 7 | 2.5 | 649 | 6 | US-10-449-902-43209   | Sequence 43209, A  | 239 | 6 | 2.2 | 155 | 7 | US-11-056-3558-85334  | Sequence 85334, App |
| 167 | 7 | 2.5 | 651 | 6 | US-10-449-902-47432   | Sequence 47432, A  | 240 | 6 | 2.2 | 156 | 7 | US-11-056-3558-79947  | Sequence 79947, A   |
| 168 | 7 | 2.5 | 659 | 7 | US-11-056-3558-83927  | Sequence 83927, A  | 241 | 6 | 2.2 | 156 | 7 | US-11-056-3558-9661   | Sequence 9661, App  |
| 169 | 7 | 2.5 | 674 | 6 | US-10-449-902-47948   | Sequence 47948, A  | 242 | 6 | 2.2 | 158 | 6 | US-10-953-349-9661    | Sequence 21174, A   |
| 170 | 7 | 2.5 | 706 | 6 | US-11-330-403-1331    | Sequence 1331, App | 243 | 6 | 2.2 | 158 | 7 | US-11-056-3558-29856  | Sequence 29856, A   |
| 171 | 6 | 2.2 | 25  | 6 | US-10-905-5274-92     | Sequence 92, App1  | 244 | 6 | 2.2 | 168 | 7 | US-11-056-3558-133446 | Sequence 133446, A  |
| 172 | 6 | 2.2 | 36  | 7 | US-11-055-098-300     | Sequence 300, App  | 245 | 6 | 2.2 | 168 | 7 | US-11-056-3558-133446 | Sequence 133446, A  |
| 173 | 6 | 2.2 | 36  | 7 | US-11-055-098-382     | Sequence 382, App  | 246 | 6 | 2.2 | 168 | 7 | US-11-056-3558-133446 | Sequence 133446, A  |
| 174 | 6 | 2.2 | 36  | 7 | US-11-301-744-300     | Sequence 300, App  | 247 | 6 | 2.2 | 164 | 6 | US-10-449-902-39994   | Sequence 39994, A   |



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|-----|---|-----|-----|---|----------------------|-------------------|-----|---|-----|-----|---|----------------------|--------------------|
| 248 | 6 | 2.2 | 165 | 6 | US-10-953-349-33588  | Sequence 33588, A | 321 | 6 | 2.2 | 220 | 7 | US-11-118-112A-82    | Sequence 82, App1  |
| 249 | 6 | 2.2 | 167 | 7 | US-11-056-355B-44948 | Sequence 44948, A | 322 | 6 | 2.2 | 220 | 7 | US-11-118-112A-84    | Sequence 84, App1  |
| 250 | 6 | 2.2 | 168 | 6 | US-10-953-349-9660   | Sequence 9660, Ap | 323 | 6 | 2.2 | 220 | 7 | US-11-118-112A-86    | Sequence 86, App1  |
| 251 | 6 | 2.2 | 168 | 7 | US-11-197-712-426    | Sequence 426, App | 324 | 6 | 2.2 | 220 | 7 | US-11-118-112A-92    | Sequence 92, App1  |
| 252 | 6 | 2.2 | 168 | 7 | US-11-056-355B-21173 | Sequence 21173, A | 325 | 6 | 2.2 | 220 | 7 | US-11-118-112A-94    | Sequence 94, App1  |
| 253 | 6 | 2.2 | 168 | 7 | US-11-056-355B-29855 | Sequence 29855, A | 326 | 6 | 2.2 | 220 | 7 | US-11-118-112A-100   | Sequence 100, App1 |
| 254 | 6 | 2.2 | 168 | 7 | US-11-056-355B-33445 | Sequence 33445, A | 327 | 6 | 2.2 | 220 | 7 | US-11-118-112A-102   | Sequence 102, App  |
| 255 | 6 | 2.2 | 168 | 7 | US-11-056-355B-61891 | Sequence 61891, A | 328 | 6 | 2.2 | 220 | 7 | US-11-118-112A-112   | Sequence 112, App  |
| 256 | 6 | 2.2 | 169 | 7 | US-11-118-112A-60    | Sequence 60, App1 | 329 | 6 | 2.2 | 220 | 7 | US-11-118-112A-120   | Sequence 120, App  |
| 257 | 6 | 2.2 | 169 | 7 | US-11-056-355B-61890 | Sequence 61890, A | 330 | 6 | 2.2 | 220 | 7 | US-11-118-112A-126   | Sequence 126, App  |
| 258 | 6 | 2.2 | 172 | 7 | US-11-056-355B-61889 | Sequence 61889, A | 331 | 6 | 2.2 | 220 | 7 | US-11-118-112A-132   | Sequence 132, App  |
| 259 | 6 | 2.2 | 177 | 6 | US-10-953-349-3613   | Sequence 3613, Ap | 332 | 6 | 2.2 | 220 | 7 | US-11-118-112A-136   | Sequence 136, App  |
| 260 | 6 | 2.2 | 182 | 7 | US-11-056-355B-15969 | Sequence 15969, A | 333 | 6 | 2.2 | 220 | 7 | US-11-118-112A-134   | Sequence 134, App  |
| 261 | 6 | 2.2 | 183 | 7 | US-11-056-355B-63218 | Sequence 63218, A | 334 | 6 | 2.2 | 220 | 7 | US-11-118-112A-138   | Sequence 138, App  |
| 262 | 6 | 2.2 | 185 | 7 | US-11-118-112A-200   | Sequence 200, App | 335 | 6 | 2.2 | 220 | 7 | US-11-118-112A-140   | Sequence 140, App  |
| 263 | 6 | 2.2 | 189 | 6 | US-10-953-349-31763  | Sequence 31763, A | 336 | 6 | 2.2 | 220 | 7 | US-11-118-112A-142   | Sequence 142, App  |
| 264 | 6 | 2.2 | 190 | 6 | US-10-953-349-34701  | Sequence 34701, A | 337 | 6 | 2.2 | 220 | 7 | US-11-118-112A-144   | Sequence 144, App  |
| 265 | 6 | 2.2 | 190 | 7 | US-11-056-355B-35166 | Sequence 35166, A | 338 | 6 | 2.2 | 220 | 7 | US-11-118-112A-150   | Sequence 150, App  |
| 266 | 6 | 2.2 | 192 | 6 | US-10-953-349-31762  | Sequence 31762, A | 339 | 6 | 2.2 | 220 | 7 | US-11-118-112A-152   | Sequence 152, App  |
| 267 | 6 | 2.2 | 194 | 6 | US-11-056-355B-15968 | Sequence 15968, A | 340 | 6 | 2.2 | 220 | 7 | US-11-118-112A-154   | Sequence 154, App  |
| 268 | 6 | 2.2 | 196 | 6 | US-10-953-349-6598   | Sequence 6598, Ap | 341 | 6 | 2.2 | 220 | 7 | US-11-118-112A-160   | Sequence 160, App  |
| 269 | 6 | 2.2 | 197 | 6 | US-10-953-349-16235  | Sequence 16235, A | 342 | 6 | 2.2 | 220 | 7 | US-11-118-112A-166   | Sequence 166, App  |
| 270 | 6 | 2.2 | 199 | 6 | US-10-449-902-47187  | Sequence 47187, A | 343 | 6 | 2.2 | 220 | 7 | US-11-118-112A-168   | Sequence 168, App  |
| 271 | 6 | 2.2 | 204 | 7 | US-11-056-355B-26487 | Sequence 26487, A | 344 | 6 | 2.2 | 220 | 7 | US-11-118-112A-219   | Sequence 219, App  |
| 272 | 6 | 2.2 | 204 | 7 | US-11-056-355B-82001 | Sequence 82001, A | 345 | 6 | 2.2 | 220 | 7 | US-11-118-112A-219   | Sequence 219, App  |
| 273 | 6 | 2.2 | 205 | 6 | US-10-953-349-34700  | Sequence 34700, A | 346 | 6 | 2.2 | 221 | 7 | US-11-118-112A-96    | Sequence 96, App1  |
| 274 | 6 | 2.2 | 210 | 7 | US-11-338-471-6      | Sequence 6, App1  | 347 | 6 | 2.2 | 221 | 7 | US-11-118-112A-98    | Sequence 98, App1  |
| 275 | 6 | 2.2 | 210 | 7 | US-11-056-355B-54508 | Sequence 54508, A | 348 | 6 | 2.2 | 221 | 7 | US-11-118-112A-104   | Sequence 104, App1 |
| 276 | 6 | 2.2 | 212 | 6 | US-10-449-902-43764  | Sequence 43764, A | 349 | 6 | 2.2 | 221 | 7 | US-11-118-112A-110   | Sequence 110, App  |
| 277 | 6 | 2.2 | 212 | 6 | US-11-056-355B-54507 | Sequence 54507, A | 350 | 6 | 2.2 | 221 | 7 | US-11-118-112A-116   | Sequence 116, App  |
| 278 | 6 | 2.2 | 213 | 6 | US-10-953-349-11572  | Sequence 11572, A | 351 | 6 | 2.2 | 221 | 7 | US-11-118-112A-122   | Sequence 122, App  |
| 279 | 6 | 2.2 | 214 | 6 | US-10-953-349-27062  | Sequence 27062, A | 352 | 6 | 2.2 | 221 | 7 | US-11-118-112A-124   | Sequence 124, App  |
| 280 | 6 | 2.2 | 214 | 6 | US-10-449-902-3756   | Sequence 37562, A | 353 | 6 | 2.2 | 221 | 7 | US-11-118-112A-128   | Sequence 128, App  |
| 281 | 6 | 2.2 | 214 | 7 | US-11-056-355B-62309 | Sequence 62309, A | 354 | 6 | 2.2 | 221 | 7 | US-11-118-112A-130   | Sequence 130, App  |
| 282 | 6 | 2.2 | 214 | 7 | US-11-330-403-16463  | Sequence 16463, A | 355 | 6 | 2.2 | 221 | 7 | US-11-118-112A-146   | Sequence 146, App  |
| 283 | 6 | 2.2 | 215 | 6 | US-10-953-349-15713  | Sequence 15713, A | 356 | 6 | 2.2 | 221 | 7 | US-11-118-112A-158   | Sequence 158, App  |
| 284 | 6 | 2.2 | 216 | 6 | US-11-056-355B-26486 | Sequence 26486, A | 357 | 6 | 2.2 | 221 | 7 | US-11-118-112A-162   | Sequence 162, App  |
| 285 | 6 | 2.2 | 216 | 7 | US-11-056-355B-82000 | Sequence 82000, A | 358 | 6 | 2.2 | 221 | 7 | US-11-118-112A-164   | Sequence 164, App  |
| 286 | 6 | 2.2 | 217 | 6 | US-10-449-902-5138   | Sequence 51328, A | 359 | 6 | 2.2 | 221 | 7 | US-11-118-112A-216   | Sequence 216, App  |
| 287 | 6 | 2.2 | 217 | 6 | US-11-056-355B-6351  | Sequence 6351, Ap | 360 | 6 | 2.2 | 221 | 7 | US-11-118-112A-217   | Sequence 217, App  |
| 288 | 6 | 2.2 | 218 | 6 | US-10-471-571A-1918  | Sequence 1918, Ap | 361 | 6 | 2.2 | 223 | 7 | US-11-118-112A-190   | Sequence 190, App  |
| 289 | 6 | 2.2 | 219 | 6 | US-11-118-112A-114   | Sequence 114, App | 362 | 6 | 2.2 | 223 | 7 | US-11-118-112A-192   | Sequence 192, App  |
| 290 | 6 | 2.2 | 220 | 6 | US-10-540-092-10     | Sequence 10, App1 | 363 | 6 | 2.2 | 223 | 7 | US-11-118-112A-194   | Sequence 194, App  |
| 291 | 6 | 2.2 | 220 | 7 | US-11-118-112A-20    | Sequence 20, App1 | 364 | 6 | 2.2 | 223 | 7 | US-11-118-112A-196   | Sequence 196, App  |
| 292 | 6 | 2.2 | 220 | 7 | US-11-118-112A-22    | Sequence 22, App1 | 365 | 6 | 2.2 | 223 | 7 | US-11-118-112A-198   | Sequence 198, App  |
| 293 | 6 | 2.2 | 220 | 7 | US-11-118-112A-24    | Sequence 24, App1 | 366 | 6 | 2.2 | 224 | 6 | US-10-449-902-47980  | Sequence 47980, A  |
| 294 | 6 | 2.2 | 220 | 7 | US-11-118-112A-26    | Sequence 26, App1 | 367 | 6 | 2.2 | 224 | 6 | US-11-056-355B-28097 | Sequence 28097, A  |
| 295 | 6 | 2.2 | 220 | 7 | US-11-118-112A-30    | Sequence 28, App1 | 368 | 6 | 2.2 | 224 | 6 | US-11-056-355B-31687 | Sequence 31687, A  |
| 296 | 6 | 2.2 | 220 | 7 | US-11-118-112A-38    | Sequence 30, App1 | 369 | 6 | 2.2 | 225 | 6 | US-10-449-902-37848  | Sequence 37848, A  |
| 297 | 6 | 2.2 | 220 | 7 | US-11-118-112A-32    | Sequence 32, App1 | 370 | 6 | 2.2 | 225 | 6 | US-10-449-902-52816  | Sequence 52816, A  |
| 298 | 6 | 2.2 | 220 | 7 | US-11-118-112A-34    | Sequence 34, App1 | 371 | 6 | 2.2 | 226 | 6 | US-10-471-571A-1352  | Sequence 1352, Ap  |
| 299 | 6 | 2.2 | 220 | 7 | US-11-118-112A-36    | Sequence 36, App1 | 372 | 6 | 2.2 | 226 | 6 | US-10-449-902-45788  | Sequence 45788, A  |
| 300 | 6 | 2.2 | 220 | 7 | US-11-118-112A-38    | Sequence 38, App1 | 373 | 6 | 2.2 | 226 | 7 | US-11-118-112A-218   | Sequence 218, App  |
| 301 | 6 | 2.2 | 220 | 7 | US-11-118-112A-40    | Sequence 40, App1 | 374 | 6 | 2.2 | 227 | 6 | US-10-449-902-48041  | Sequence 48041, A  |
| 302 | 6 | 2.2 | 220 | 7 | US-11-118-112A-42    | Sequence 42, App1 | 375 | 6 | 2.2 | 228 | 7 | US-11-056-355B-76483 | Sequence 76483, A  |
| 303 | 6 | 2.2 | 220 | 7 | US-11-118-112A-44    | Sequence 44, App1 | 377 | 6 | 2.2 | 229 | 7 | US-11-101-316-48     | Sequence 48, App1  |
| 304 | 6 | 2.2 | 220 | 7 | US-11-118-112A-46    | Sequence 46, App1 | 378 | 6 | 2.2 | 229 | 7 | US-11-376-673-48     | Sequence 48, App1  |
| 305 | 6 | 2.2 | 220 | 7 | US-11-118-112A-48    | Sequence 48, App1 | 379 | 6 | 2.2 | 231 | 7 | US-11-118-112A-181   | Sequence 181, App  |
| 306 | 6 | 2.2 | 220 | 7 | US-11-118-112A-50    | Sequence 50, App1 | 380 | 6 | 2.2 | 231 | 7 | US-11-056-355B-56129 | Sequence 56129, A  |
| 307 | 6 | 2.2 | 220 | 7 | US-11-118-112A-52    | Sequence 52, App1 | 381 | 6 | 2.2 | 233 | 6 | US-10-471-571A-1462  | Sequence 1462, Ap  |
| 308 | 6 | 2.2 | 220 | 7 | US-11-118-112A-54    | Sequence 54, App1 | 382 | 6 | 2.2 | 233 | 6 | US-11-293-697-2901   | Sequence 2901, App |
| 309 | 6 | 2.2 | 220 | 7 | US-11-118-112A-56    | Sequence 56, App1 | 383 | 6 | 2.2 | 234 | 7 | US-11-330-403-11637  | Sequence 11637, A  |
| 310 | 6 | 2.2 | 220 | 7 | US-11-118-112A-58    | Sequence 58, App1 | 384 | 6 | 2.2 | 235 | 7 | US-11-118-112A-182   | Sequence 182, App  |
| 311 | 6 | 2.2 | 220 | 7 | US-11-118-112A-62    | Sequence 62, App1 | 385 | 6 | 2.2 | 235 | 7 | US-11-118-112A-225   | Sequence 225, App  |
| 312 | 6 | 2.2 | 220 | 7 | US-11-118-112A-64    | Sequence 64, App1 | 386 | 6 | 2.2 | 240 | 6 | US-10-953-349-27524  | Sequence 27524, A  |
| 313 | 6 | 2.2 | 220 | 7 | US-11-118-112A-66    | Sequence 66, App1 | 387 | 6 | 2.2 | 240 | 6 | US-10-953-349-38706  | Sequence 38706, A  |
| 314 | 6 | 2.2 | 220 | 7 | US-11-118-112A-68    | Sequence 68, App1 | 388 | 6 | 2.2 | 240 | 7 | US-11-056-355B-73432 | Sequence 73432, A  |
| 315 | 6 | 2.2 | 220 | 7 | US-11-118-112A-70    | Sequence 70, App1 | 390 | 6 | 2.2 | 243 | 7 | US-11-296-092-42     | Sequence 42, App1  |
| 316 | 6 | 2.2 | 220 | 7 | US-11-118-112A-72    | Sequence 72, App1 | 391 | 6 | 2.2 | 243 | 7 | US-11-296-155-42     | Sequence 42, App1  |
| 317 | 6 | 2.2 | 220 | 7 | US-11-118-112A-74    | Sequence 74, App1 | 392 | 6 | 2.2 | 243 | 7 | US-11-056-355B-11518 | Sequence 11518, A  |
| 318 | 6 | 2.2 | 220 | 7 | US-11-118-112A-76    | Sequence 76, App1 | 393 | 6 | 2.2 | 246 | 6 | US-10-953-349-16234  | Sequence 16234, A  |
| 319 | 6 | 2.2 | 220 | 7 | US-11-118-112A-78    | Sequence 78, App1 | 394 | 6 | 2.2 | 247 | 7 | US-11-056-355B-66422 | Sequence 66422, A  |
| 320 | 6 | 2.2 | 220 | 7 | US-11-118-112A-80    | Sequence 80, App1 | 395 | 6 | 2.2 | 249 | 6 | US-10-953-349-2280   | Sequence 2280, Ap  |

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| 396 | 6 | 2.2 | 249 | 7 | US-11-056-355B-44877  | Sequence 44877, A  | 469 | 6 | 2.2 | 297 | 7 | US-11-056-355B-94391  | Sequence 94391, A  |
| 397 | 6 | 2.2 | 249 | 7 | US-11-056-355B-72120  | Sequence 72120, A  | 470 | 6 | 2.2 | 301 | 6 | US-10-449-902-32916   | Sequence 32916, A  |
| 398 | 6 | 2.2 | 251 | 6 | US-10-953-349-434     | Sequence 434, App  | 471 | 6 | 2.2 | 301 | 6 | US-10-449-902-42902   | Sequence 42902, A  |
| 399 | 6 | 2.2 | 251 | 6 | US-10-953-349-2279    | Sequence 2279, Ap  | 472 | 6 | 2.2 | 301 | 7 | US-11-056-355B-10962  | Sequence 10962, A  |
| 400 | 6 | 2.2 | 251 | 7 | US-11-056-355B-25154  | Sequence 25154, A  | 473 | 6 | 2.2 | 303 | 7 | US-11-056-355B-63217  | Sequence 63217, A  |
| 401 | 6 | 2.2 | 251 | 7 | US-11-056-355B-25730  | Sequence 25730, A  | 474 | 6 | 2.2 | 304 | 6 | US-10-953-349-6569    | Sequence 6569, Ap  |
| 402 | 6 | 2.2 | 251 | 7 | US-11-056-355B-75011  | Sequence 75011, A  | 475 | 6 | 2.2 | 304 | 7 | US-11-056-355B-3584   | Sequence 3584, A   |
| 403 | 6 | 2.2 | 251 | 7 | US-11-056-355B-105124 | Sequence 105124, A | 476 | 6 | 2.2 | 305 | 6 | US-10-953-349-13299   | Sequence 13299, A  |
| 404 | 6 | 2.2 | 251 | 7 | US-11-056-355B-116363 | Sequence 116363, A | 477 | 6 | 2.2 | 306 | 6 | US-10-449-902-50850   | Sequence 50850, A  |
| 405 | 6 | 2.2 | 253 | 6 | US-10-953-349-14035   | Sequence 14035, A  | 478 | 6 | 2.2 | 306 | 7 | US-11-056-355B-81999  | Sequence 81999, A  |
| 406 | 6 | 2.2 | 253 | 7 | US-11-056-355B-1068   | Sequence 1068, Ap  | 479 | 6 | 2.2 | 307 | 7 | US-11-056-355B-16198  | Sequence 16198, A  |
| 407 | 6 | 2.2 | 253 | 7 | US-11-056-355B-54506  | Sequence 54506, A  | 480 | 6 | 2.2 | 307 | 7 | US-11-056-355B-24027  | Sequence 24027, A  |
| 408 | 6 | 2.2 | 253 | 7 | US-11-056-355B-56204  | Sequence 56204, A  | 481 | 6 | 2.2 | 307 | 7 | US-11-056-355B-73431  | Sequence 73431, A  |
| 409 | 6 | 2.2 | 253 | 7 | US-11-330-403-3753    | Sequence 3753, Ap  | 482 | 6 | 2.2 | 307 | 7 | US-11-056-355B-79346  | Sequence 79346, A  |
| 410 | 6 | 2.2 | 253 | 7 | US-11-330-403-7931    | Sequence 7931, Ap  | 483 | 6 | 2.2 | 308 | 6 | US-10-953-349-37378   | Sequence 37378, A  |
| 411 | 6 | 2.2 | 253 | 7 | US-11-330-403-8100    | Sequence 8100, Ap  | 484 | 6 | 2.2 | 309 | 6 | US-10-953-349-6289    | Sequence 6289, Ap  |
| 412 | 6 | 2.2 | 254 | 7 | US-11-118-112A-88     | Sequence 88, Appl  | 485 | 6 | 2.2 | 309 | 7 | US-11-056-355B-30665  | Sequence 30665, A  |
| 413 | 6 | 2.2 | 254 | 7 | US-11-118-112A-90     | Sequence 90, Appl  | 486 | 6 | 2.2 | 309 | 7 | US-11-056-355B-38255  | Sequence 38255, A  |
| 414 | 6 | 2.2 | 254 | 7 | US-11-056-355B-49176  | Sequence 49176, A  | 487 | 6 | 2.2 | 309 | 7 | US-11-056-355B-38798  | Sequence 38798, A  |
| 415 | 6 | 2.2 | 255 | 6 | US-10-953-349-38678   | Sequence 38678, A  | 488 | 6 | 2.2 | 312 | 6 | US-10-449-902-31667   | Sequence 31667, A  |
| 416 | 6 | 2.2 | 256 | 6 | US-10-953-349-16233   | Sequence 16233, A  | 489 | 6 | 2.2 | 312 | 6 | US-10-449-902-36630   | Sequence 36630, A  |
| 417 | 6 | 2.2 | 256 | 7 | US-11-056-355B-75013  | Sequence 75013, A  | 490 | 6 | 2.2 | 312 | 7 | US-11-056-355B-18518  | Sequence 18518, A  |
| 418 | 6 | 2.2 | 257 | 6 | US-10-953-349-27061   | Sequence 27061, A  | 491 | 6 | 2.2 | 312 | 7 | US-11-056-355B-25252  | Sequence 25252, A  |
| 419 | 6 | 2.2 | 257 | 6 | US-10-449-902-50586   | Sequence 50586, A  | 492 | 6 | 2.2 | 312 | 7 | US-11-056-355B-26485  | Sequence 26485, A  |
| 420 | 6 | 2.2 | 257 | 6 | US-11-056-355B-35165  | Sequence 35165, A  | 493 | 6 | 2.2 | 312 | 7 | US-11-056-355B-85771  | Sequence 85771, A  |
| 421 | 6 | 2.2 | 257 | 7 | US-11-056-355B-62308  | Sequence 62308, A  | 494 | 6 | 2.2 | 312 | 7 | US-11-056-355B-90634  | Sequence 90634, A  |
| 422 | 6 | 2.2 | 257 | 7 | US-11-330-403-13202   | Sequence 13202, A  | 495 | 6 | 2.2 | 312 | 7 | US-11-056-355B-94390  | Sequence 94390, A  |
| 423 | 6 | 2.2 | 258 | 7 | US-11-056-355B-35164  | Sequence 35164, A  | 496 | 6 | 2.2 | 312 | 7 | US-11-056-355B-10782  | Sequence 10782, A  |
| 424 | 6 | 2.2 | 261 | 7 | US-11-056-355B-11517  | Sequence 11517, A  | 497 | 6 | 2.2 | 312 | 7 | US-11-056-355B-108492 | Sequence 108492, A |
| 425 | 6 | 2.2 | 263 | 6 | US-10-449-902-54348   | Sequence 54348, A  | 498 | 6 | 2.2 | 312 | 7 | US-11-056-355B-112021 | Sequence 112021, A |
| 426 | 6 | 2.2 | 264 | 7 | US-11-056-355B-1067   | Sequence 1067, Ap  | 499 | 6 | 2.2 | 313 | 7 | US-11-056-355B-119731 | Sequence 119731, A |
| 427 | 6 | 2.2 | 265 | 7 | US-11-056-355B-4747   | Sequence 4747, Ap  | 500 | 6 | 2.2 | 313 | 7 | US-11-056-355B-1561   | Sequence 1561, Ap  |
| 428 | 6 | 2.2 | 266 | 6 | US-10-471-571A-4134   | Sequence 4134, Ap  | 501 | 6 | 2.2 | 313 | 7 | US-11-056-355B-18517  | Sequence 18517, A  |
| 429 | 6 | 2.2 | 268 | 6 | US-10-953-349-3612    | Sequence 3612, Ap  | 502 | 6 | 2.2 | 313 | 7 | US-11-056-355B-24026  | Sequence 24026, A  |
| 430 | 6 | 2.2 | 268 | 6 | US-10-449-902-45864   | Sequence 45864, A  | 503 | 6 | 2.2 | 313 | 7 | US-11-056-355B-73945  | Sequence 73945, A  |
| 431 | 6 | 2.2 | 270 | 7 | US-11-056-355B-63812  | Sequence 63812, A  | 504 | 6 | 2.2 | 314 | 6 | US-10-953-349-2278    | Sequence 2278, Ap  |
| 432 | 6 | 2.2 | 270 | 7 | US-11-330-403-6628    | Sequence 6628, Ap  | 505 | 6 | 2.2 | 315 | 6 | US-10-449-902-37620   | Sequence 37620, A  |
| 433 | 6 | 2.2 | 272 | 6 | US-10-953-349-32117   | Sequence 32117, A  | 506 | 6 | 2.2 | 316 | 6 | US-10-953-349-6288    | Sequence 6288, Ap  |
| 434 | 6 | 2.2 | 272 | 6 | US-11-056-355B-67205  | Sequence 67205, A  | 507 | 6 | 2.2 | 316 | 6 | US-10-953-349-38677   | Sequence 38677, A  |
| 435 | 6 | 2.2 | 273 | 6 | US-10-953-349-27060   | Sequence 27060, A  | 508 | 6 | 2.2 | 316 | 7 | US-11-056-355B-45180  | Sequence 45180, A  |
| 436 | 6 | 2.2 | 273 | 7 | US-11-056-355B-62307  | Sequence 62307, A  | 509 | 6 | 2.2 | 316 | 7 | US-11-056-355B-63911  | Sequence 63911, A  |
| 437 | 6 | 2.2 | 274 | 6 | US-10-953-349-6290    | Sequence 6290, Ap  | 510 | 6 | 2.2 | 316 | 7 | US-11-056-355B-72119  | Sequence 72119, A  |
| 438 | 6 | 2.2 | 274 | 7 | US-11-056-355B-15669  | Sequence 15669, A  | 511 | 6 | 2.2 | 317 | 6 | US-10-953-349-15712   | Sequence 15712, A  |
| 439 | 6 | 2.2 | 274 | 7 | US-11-056-355B-44947  | Sequence 44947, A  | 512 | 6 | 2.2 | 317 | 6 | US-11-056-355B-16197  | Sequence 16197, A  |
| 440 | 6 | 2.2 | 276 | 7 | US-11-056-355B-85772  | Sequence 85772, A  | 513 | 6 | 2.2 | 318 | 6 | US-10-953-349-33695   | Sequence 33695, A  |
| 441 | 6 | 2.2 | 277 | 7 | US-11-056-355B-10963  | Sequence 10963, A  | 514 | 6 | 2.2 | 318 | 7 | US-11-056-355B-2338   | Sequence 2338, Ap  |
| 442 | 6 | 2.2 | 279 | 6 | US-10-953-349-3611    | Sequence 3611, Ap  | 515 | 6 | 2.2 | 318 | 7 | US-11-056-355B-55499  | Sequence 55499, A  |
| 443 | 6 | 2.2 | 279 | 6 | US-10-449-902-34613   | Sequence 34613, A  | 516 | 6 | 2.2 | 319 | 6 | US-10-449-902-56619   | Sequence 56619, A  |
| 444 | 6 | 2.2 | 281 | 6 | US-10-449-902-40193   | Sequence 40193, A  | 517 | 6 | 2.2 | 320 | 6 | US-10-953-349-18802   | Sequence 18802, A  |
| 445 | 6 | 2.2 | 282 | 7 | US-11-056-355B-58799  | Sequence 58799, A  | 518 | 6 | 2.2 | 320 | 7 | US-11-056-355B-53569  | Sequence 53569, A  |
| 446 | 6 | 2.2 | 282 | 7 | US-11-330-403-790     | Sequence 790, App  | 519 | 6 | 2.2 | 322 | 7 | US-11-101-316-6       | Sequence 6, Appl1  |
| 447 | 6 | 2.2 | 284 | 6 | US-11-056-355B-76482  | Sequence 76482, A  | 520 | 6 | 2.2 | 322 | 7 | US-11-359-509-2       | Sequence 2, Appl1  |
| 448 | 6 | 2.2 | 284 | 6 | US-10-449-902-38334   | Sequence 38334, A  | 521 | 6 | 2.2 | 322 | 7 | US-11-056-355B-66421  | Sequence 66421, A  |
| 449 | 6 | 2.2 | 287 | 6 | US-10-449-902-39381   | Sequence 39381, A  | 522 | 6 | 2.2 | 322 | 7 | US-11-376-673-6       | Sequence 6, Appl1  |
| 450 | 6 | 2.2 | 288 | 6 | US-10-953-349-10723   | Sequence 10723, A  | 523 | 6 | 2.2 | 322 | 6 | US-10-953-349-10722   | Sequence 10722, A  |
| 451 | 6 | 2.2 | 288 | 7 | US-11-056-355B-50635  | Sequence 50635, A  | 524 | 6 | 2.2 | 322 | 6 | US-10-449-902-31644   | Sequence 31644, A  |
| 452 | 6 | 2.2 | 288 | 7 | US-11-056-355B-107409 | Sequence 107409, A | 525 | 6 | 2.2 | 323 | 6 | US-10-449-902-52523   | Sequence 52523, A  |
| 453 | 6 | 2.2 | 288 | 7 | US-11-056-355B-118648 | Sequence 118648, A | 526 | 6 | 2.2 | 323 | 7 | US-11-056-355B-50634  | Sequence 50634, A  |
| 454 | 6 | 2.2 | 289 | 6 | US-10-953-349-37379   | Sequence 37379, A  | 527 | 6 | 2.2 | 323 | 7 | US-11-056-355B-107408 | Sequence 107408, A |
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| 456 | 6 | 2.2 | 290 | 7 | US-11-056-355B-42104  | Sequence 42104, A  | 529 | 6 | 2.2 | 324 | 6 | US-10-953-349-10721   | Sequence 10721, A  |
| 457 | 6 | 2.2 | 290 | 7 | US-11-056-355B-105397 | Sequence 105397, A | 530 | 6 | 2.2 | 324 | 7 | US-11-056-355B-50633  | Sequence 50633, A  |
| 458 | 6 | 2.2 | 292 | 6 | US-11-056-355B-116366 | Sequence 116366, A | 531 | 6 | 2.2 | 324 | 7 | US-11-056-355B-107407 | Sequence 107407, A |
| 459 | 6 | 2.2 | 292 | 6 | US-10-953-349-33587   | Sequence 33587, A  | 532 | 6 | 2.2 | 324 | 7 | US-11-056-355B-118646 | Sequence 118646, A |
| 460 | 6 | 2.2 | 292 | 6 | US-10-449-902-33572   | Sequence 33572, A  | 533 | 6 | 2.2 | 326 | 6 | US-10-953-349-21520   | Sequence 21520, A  |
| 461 | 6 | 2.2 | 293 | 6 | US-10-953-349-38705   | Sequence 38705, A  | 534 | 6 | 2.2 | 326 | 6 | US-10-449-902-31881   | Sequence 31881, A  |
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| 468 | 6 | 2.2 | 297 | 7 | US-11-056-355B-90635  | Sequence 90635, A  | 541 | 6 | 2.2 | 330 | 6 | US-10-449-902-39204   | Sequence 39204, A  |

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| 543 | 6 | 2.2 | 331 | 7 | US-11-197-712-243     | Sequence 243, App   |
| 544 | 6 | 2.2 | 332 | 6 | US-10-449-902-52927   | Sequence 52927, A   |
| 545 | 6 | 2.2 | 333 | 7 | US-11-056-355B-47118  | Sequence 47118, A   |
| 546 | 6 | 2.2 | 333 | 7 | US-11-056-355B-105479 | Sequence 105479, A  |
| 547 | 6 | 2.2 | 333 | 7 | US-11-056-355B-116718 | Sequence 116718, A  |
| 548 | 6 | 2.2 | 334 | 7 | US-11-056-355B-30664  | Sequence 30664, A   |
| 549 | 6 | 2.2 | 334 | 7 | US-11-056-355B-34254  | Sequence 34254, A   |
| 550 | 6 | 2.2 | 335 | 6 | US-10-449-902-43106   | Sequence 43106, A   |
| 551 | 6 | 2.2 | 335 | 7 | US-11-056-355B-58797  | Sequence 58797, A   |
| 552 | 6 | 2.2 | 337 | 7 | US-11-056-355B-49175  | Sequence 49175, A   |
| 553 | 6 | 2.2 | 339 | 7 | US-11-056-355B-63216  | Sequence 63216, A   |
| 554 | 6 | 2.2 | 339 | 7 | US-11-056-355B-66420  | Sequence 66420, A   |
| 555 | 6 | 2.2 | 339 | 7 | US-11-330-403-12397   | Sequence 12397, A   |
| 556 | 6 | 2.2 | 340 | 6 | US-10-953-349-38704   | Sequence 38704, A   |
| 557 | 6 | 2.2 | 340 | 6 | US-10-953-349-38937   | Sequence 38937, A   |
| 558 | 6 | 2.2 | 340 | 7 | US-11-293-697-3905    | Sequence 3905, App  |
| 559 | 6 | 2.2 | 340 | 7 | US-11-174-307B-2864   | Sequence 2864, App  |
| 560 | 6 | 2.2 | 340 | 7 | US-11-174-307B-4972   | Sequence 4972, App  |
| 561 | 6 | 2.2 | 340 | 7 | US-11-056-355B-90633  | Sequence 90633, A   |
| 562 | 6 | 2.2 | 340 | 7 | US-11-056-355B-94389  | Sequence 94389, A   |
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| 564 | 6 | 2.2 | 341 | 6 | US-10-449-902-42686   | Sequence 42686, A   |
| 565 | 6 | 2.2 | 342 | 7 | US-11-056-355B-52805  | Sequence 52805, A   |
| 566 | 6 | 2.2 | 343 | 6 | US-10-374-780A-168    | Sequence 168, App   |
| 567 | 6 | 2.2 | 343 | 7 | US-11-056-355B-49174  | Sequence 49174, A   |
| 568 | 6 | 2.2 | 343 | 7 | US-11-330-403-16984   | Sequence 16984, A   |
| 569 | 6 | 2.2 | 344 | 6 | US-10-953-349-32116   | Sequence 32116, A   |
| 570 | 6 | 2.2 | 344 | 6 | US-11-056-355B-67204  | Sequence 67204, A   |
| 571 | 6 | 2.2 | 345 | 6 | US-10-953-349-21518   | Sequence 21518, A   |
| 572 | 6 | 2.2 | 345 | 6 | US-11-056-355B-59590  | Sequence 59590, App |
| 573 | 6 | 2.2 | 345 | 6 | US-10-449-902-50715   | Sequence 50715, A   |
| 574 | 6 | 2.2 | 346 | 6 | US-10-449-902-50715   | Sequence 50715, A   |
| 575 | 6 | 2.2 | 346 | 6 | US-11-056-355B-15668  | Sequence 15668, A   |
| 576 | 6 | 2.2 | 346 | 6 | US-10-449-902-52832   | Sequence 52832, A   |
| 577 | 6 | 2.2 | 349 | 6 | US-10-511-937-2541    | Sequence 2541, App  |
| 578 | 6 | 2.2 | 349 | 6 | US-10-511-937-2958    | Sequence 2958, App  |
| 579 | 6 | 2.2 | 350 | 6 | US-10-511-937-2609    | Sequence 2609, App  |
| 580 | 6 | 2.2 | 350 | 7 | US-11-051-725-187     | Sequence 187, App   |
| 581 | 6 | 2.2 | 350 | 7 | US-11-056-355B-108490 | Sequence 108490, A  |
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| 584 | 6 | 2.2 | 353 | 6 | US-10-953-349-11571   | Sequence 11571, A   |
| 585 | 6 | 2.2 | 353 | 6 | US-11-056-355B-17076  | Sequence 17076, A   |
| 586 | 6 | 2.2 | 354 | 6 | US-10-449-902-43952   | Sequence 43952, A   |
| 587 | 6 | 2.2 | 355 | 7 | US-11-056-355B-82369  | Sequence 82369, A   |
| 588 | 6 | 2.2 | 359 | 6 | US-10-449-902-34687   | Sequence 34687, A   |
| 589 | 6 | 2.2 | 359 | 7 | US-11-367-538-9       | Sequence 9, App1    |
| 590 | 6 | 2.2 | 359 | 7 | US-11-330-403-6419    | Sequence 6419, App  |
| 591 | 6 | 2.2 | 360 | 6 | US-10-953-349-6568    | Sequence 6568, App  |
| 592 | 6 | 2.2 | 360 | 7 | US-11-056-355B-39583  | Sequence 39583, A   |
| 593 | 6 | 2.2 | 360 | 7 | US-11-056-355B-52804  | Sequence 52804, A   |
| 594 | 6 | 2.2 | 361 | 6 | US-10-953-349-24583   | Sequence 24583, A   |
| 595 | 6 | 2.2 | 361 | 6 | US-10-953-349-33694   | Sequence 33694, A   |
| 596 | 6 | 2.2 | 361 | 7 | US-11-056-355B-2337   | Sequence 2337, App  |
| 597 | 6 | 2.2 | 362 | 7 | US-11-056-355B-30663  | Sequence 30663, A   |
| 598 | 6 | 2.2 | 362 | 7 | US-11-056-355B-34253  | Sequence 34253, A   |
| 599 | 6 | 2.2 | 363 | 6 | US-10-953-349-413     | Sequence 413, App   |
| 600 | 6 | 2.2 | 363 | 6 | US-10-953-349-11570   | Sequence 11570, A   |
| 601 | 6 | 2.2 | 363 | 7 | US-11-056-355B-25729  | Sequence 25729, A   |
| 602 | 6 | 2.2 | 363 | 7 | US-11-056-355B-105123 | Sequence 105123, A  |
| 603 | 6 | 2.2 | 363 | 7 | US-11-056-355B-116362 | Sequence 116362, A  |
| 604 | 6 | 2.2 | 366 | 7 | US-11-356-823-6       | Sequence 6, App1    |
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| 606 | 6 | 2.2 | 368 | 6 | US-10-449-902-35551   | Sequence 35551, A   |
| 607 | 6 | 2.2 | 368 | 7 | US-11-056-355B-98231  | Sequence 98231, A   |
| 608 | 6 | 2.2 | 368 | 7 | US-11-056-355B-109470 | Sequence 109470, A  |
| 609 | 6 | 2.2 | 369 | 6 | US-10-449-902-35249   | Sequence 35249, A   |
| 610 | 6 | 2.2 | 369 | 6 | US-10-449-902-56467   | Sequence 56467, A   |
| 611 | 6 | 2.2 | 369 | 7 | US-11-056-355B-45179  | Sequence 45179, A   |
| 612 | 6 | 2.2 | 369 | 7 | US-11-056-355B-72118  | Sequence 72118, A   |
| 613 | 6 | 2.2 | 370 | 6 | US-10-953-349-6597    | Sequence 6597, App  |
| 614 | 6 | 2.2 | 370 | 7 | US-11-056-355B-25153  | Sequence 25153, A   |
| 615 | 6 | 2.2 | 370 | 7 | US-11-056-355B-43106  | Sequence 43106, A   |
| 616 | 6 | 2.2 | 370 | 7 | US-11-056-355B-75010  | Sequence 75010, A   |
| 617 | 6 | 2.2 | 371 | 7 | US-11-056-355B-97210  | Sequence 97210, A   |
| 618 | 6 | 2.2 | 372 | 6 | US-10-449-902-46170   | Sequence 46370, A   |
| 619 | 6 | 2.2 | 372 | 6 | US-11-056-355B-97209  | Sequence 97209, A   |
| 620 | 6 | 2.2 | 374 | 6 | US-10-953-349-11497   | Sequence 11497, A   |
| 621 | 6 | 2.2 | 374 | 6 | US-10-953-349-18601   | Sequence 18601, A   |
| 622 | 6 | 2.2 | 374 | 6 | US-11-056-355B-51568  | Sequence 51568, A   |
| 623 | 6 | 2.2 | 374 | 7 | US-11-056-355B-98230  | Sequence 98230, A   |
| 624 | 6 | 2.2 | 374 | 7 | US-11-056-355B-109469 | Sequence 109469, A  |
| 625 | 6 | 2.2 | 375 | 6 | US-10-953-349-15711   | Sequence 15711, A   |
| 626 | 6 | 2.2 | 377 | 6 | US-10-953-349-12398   | Sequence 12398, A   |
| 627 | 6 | 2.2 | 377 | 6 | US-10-953-349-18600   | Sequence 18600, A   |
| 628 | 6 | 2.2 | 377 | 6 | US-11-056-355B-51567  | Sequence 51567, A   |
| 629 | 6 | 2.2 | 378 | 7 | US-11-330-403-5894    | Sequence 5894, App  |
| 630 | 6 | 2.2 | 379 | 7 | US-11-056-355B-43105  | Sequence 43105, A   |
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| 632 | 6 | 2.2 | 380 | 6 | US-11-330-403-4446    | Sequence 4446, App  |
| 633 | 6 | 2.2 | 383 | 6 | US-10-953-349-24537   | Sequence 24537, A   |
| 634 | 6 | 2.2 | 387 | 6 | US-10-449-902-51653   | Sequence 51653, A   |
| 635 | 6 | 2.2 | 387 | 7 | US-11-174-307B-5520   | Sequence 5520, App  |
| 636 | 6 | 2.2 | 388 | 6 | US-10-953-349-11496   | Sequence 11496, A   |
| 637 | 6 | 2.2 | 388 | 6 | US-10-953-349-11496   | Sequence 11496, A   |
| 638 | 6 | 2.2 | 388 | 7 | US-11-330-363-27      | Sequence 27, App1   |
| 639 | 6 | 2.2 | 388 | 7 | US-11-056-355B-16399  | Sequence 16399, A   |
| 640 | 6 | 2.2 | 388 | 7 | US-11-056-355B-98229  | Sequence 98229, A   |
| 641 | 6 | 2.2 | 388 | 7 | US-11-056-355B-98229  | Sequence 98229, A   |
| 642 | 6 | 2.2 | 388 | 7 | US-11-056-355B-109468 | Sequence 109468, A  |
| 643 | 6 | 2.2 | 389 | 6 | US-10-953-349-24536   | Sequence 24536, A   |
| 644 | 6 | 2.2 | 389 | 6 | US-10-531-655-2       | Sequence 2, App1    |
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| 649 | 6 | 2.2 | 392 | 7 | US-11-056-355B-112020 | Sequence 112020, A  |
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| 652 | 6 | 2.2 | 394 | 6 | US-10-953-349-38936   | Sequence 38936, A   |
| 653 | 6 | 2.2 | 394 | 6 | US-11-056-355B-65149  | Sequence 65149, A   |
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| 656 | 6 | 2.2 | 397 | 6 | US-10-953-349-6567    | Sequence 6567, App  |
| 657 | 6 | 2.2 | 397 | 7 | US-11-056-355B-39582  | Sequence 39582, A   |
| 658 | 6 | 2.2 | 398 | 7 | US-11-056-355B-6805   | Sequence 6805, App  |
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| 662 | 6 | 2.2 | 406 | 6 | US-10-449-902-50379   | Sequence 50379, A   |
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| 665 | 6 | 2.2 | 410 | 6 | US-10-953-349-32071   | Sequence 32071, A   |
| 666 | 6 | 2.2 | 410 | 6 | US-11-056-355B-52803  | Sequence 52803, A   |
| 667 | 6 | 2.2 | 411 | 7 | US-11-056-355B-66333  | Sequence 66333, A   |
| 668 | 6 | 2.2 | 411 | 7 | US-11-330-403-3019    | Sequence 3019, App  |
| 669 | 6 | 2.2 | 412 | 6 | US-10-374-780A-2794   | Sequence 2794, App  |
| 670 | 6 | 2.2 | 412 | 6 | US-11-056-355B-43104  | Sequence 43104, A   |
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| 672 | 6 | 2.2 | 414 | 6 | US-10-953-349-31504   | Sequence 31504, A   |
| 673 | 6 | 2.2 | 415 | 6 | US-10-953-349-11539   | Sequence 11539, A   |
| 674 | 6 | 2.2 | 416 | 7 | US-11-293-697-4389    | Sequence 4389, App  |
| 675 | 6 | 2.2 | 417 | 7 | US-11-056-355B-25250  | Sequence 25250, A   |
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| 677 | 6 | 2.2 | 417 | 7 | US-11-056-355B-112019 | Sequence 112019, A  |
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| 686 | 6 | 2.2 | 421 | 7 | US-11-056-355B-2336   | Sequence 2336, App  |
| 687 | 6 | 2.2 | 422 | 6 | US-10-449-902-37495   | Sequence 37495, A   |

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| 688 | 6 | 2.2 | 423 | 7 | US-11-056-355B-65148  | Sequence 65148, A   | 761 | 6 | 2.2 | 500 | 7 | US-11-024-544A-172    | Sequence 172, App  |
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| 690 | 6 | 2.2 | 428 | 6 | US-11-056-355B-60085  | Sequence 60085, A   | 763 | 6 | 2.2 | 500 | 7 | US-11-330-403-1454    | Sequence 1454, App |
| 691 | 6 | 2.2 | 433 | 6 | US-10-953-349-45907   | Sequence 45907, App | 764 | 6 | 2.2 | 501 | 7 | US-10-330-403-402     | Sequence 402, App  |
| 692 | 6 | 2.2 | 433 | 6 | US-10-953-349-25007   | Sequence 25007, A   | 765 | 6 | 2.2 | 504 | 6 | US-10-532-868-9       | Sequence 9, Appl1  |
| 693 | 6 | 2.2 | 433 | 6 | US-11-056-355B-6804   | Sequence 6804, App  | 766 | 6 | 2.2 | 504 | 7 | US-11-056-355B-42339  | Sequence 42339, A  |
| 694 | 6 | 2.2 | 433 | 7 | US-11-056-355B-25004  | Sequence 25004, A   | 767 | 6 | 2.2 | 506 | 6 | US-11-056-355B-62603  | Sequence 62603, A  |
| 695 | 6 | 2.2 | 433 | 7 | US-11-056-355B-25629  | Sequence 25629, A   | 768 | 6 | 2.2 | 506 | 7 | US-11-056-355B-91114  | Sequence 91114, A  |
| 696 | 6 | 2.2 | 433 | 7 | US-11-056-355B-60084  | Sequence 60084, A   | 769 | 6 | 2.2 | 506 | 7 | US-11-056-355B-94870  | Sequence 94870, A  |
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| 699 | 6 | 2.2 | 436 | 6 | US-10-953-349-25006   | Sequence 25006, A   | 772 | 6 | 2.2 | 510 | 6 | US-10-449-902-50958   | Sequence 50958, A  |
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| 701 | 6 | 2.2 | 437 | 6 | US-10-953-349-11537   | Sequence 11537, A   | 774 | 6 | 2.2 | 511 | 6 | US-11-056-355B-62602  | Sequence 62602, A  |
| 702 | 6 | 2.2 | 437 | 6 | US-11-174-307B-2376   | Sequence 2376, App  | 775 | 6 | 2.2 | 512 | 6 | US-10-449-902-50821   | Sequence 50821, A  |
| 703 | 6 | 2.2 | 437 | 7 | US-11-330-403-18615   | Sequence 18615, A   | 776 | 6 | 2.2 | 513 | 6 | US-10-953-349-21284   | Sequence 21284, A  |
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| 706 | 6 | 2.2 | 440 | 6 | US-10-953-349-1386    | Sequence 1386, App  | 779 | 6 | 2.2 | 516 | 7 | US-11-056-355B-44978  | Sequence 44978, A  |
| 707 | 6 | 2.2 | 442 | 7 | US-11-225-804-4       | Sequence 4, Appl1   | 780 | 6 | 2.2 | 520 | 7 | US-11-056-355B-1560   | Sequence 1560, App |
| 708 | 6 | 2.2 | 443 | 6 | US-10-953-349-36037   | Sequence 36037, A   | 781 | 6 | 2.2 | 520 | 6 | US-10-953-349-19679   | Sequence 19679, A  |
| 709 | 6 | 2.2 | 443 | 6 | US-11-056-355B-10254  | Sequence 10254, A   | 782 | 6 | 2.2 | 525 | 6 | US-10-449-902-43532   | Sequence 43532, A  |
| 710 | 6 | 2.2 | 445 | 6 | US-10-449-902-49182   | Sequence 49182, A   | 783 | 6 | 2.2 | 528 | 6 | US-10-449-902-48837   | Sequence 48837, A  |
| 711 | 6 | 2.2 | 445 | 6 | US-11-056-355B-6803   | Sequence 6803, App  | 784 | 6 | 2.2 | 530 | 6 | US-11-056-355B-50483  | Sequence 50483, A  |
| 712 | 6 | 2.2 | 446 | 6 | US-10-713-648A-57     | Sequence 57, Appl1  | 785 | 6 | 2.2 | 531 | 6 | US-10-953-349-20042   | Sequence 20042, A  |
| 713 | 6 | 2.2 | 447 | 6 | US-10-449-902-39244   | Sequence 39244, A   | 786 | 6 | 2.2 | 534 | 7 | US-11-056-355B-44977  | Sequence 44977, A  |
| 714 | 6 | 2.2 | 448 | 6 | US-10-953-349-1385    | Sequence 1385, App  | 787 | 6 | 2.2 | 537 | 6 | US-10-953-349-32070   | Sequence 32070, A  |
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| 716 | 6 | 2.2 | 449 | 7 | US-11-056-355B-65147  | Sequence 65147, A   | 789 | 6 | 2.2 | 539 | 7 | US-11-056-355B-45490  | Sequence 45490, A  |
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| 718 | 6 | 2.2 | 451 | 7 | US-11-056-355B-45674  | Sequence 45674, A   | 791 | 6 | 2.2 | 540 | 7 | US-11-330-403-16078   | Sequence 16078, A  |
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| 720 | 6 | 2.2 | 451 | 7 | US-11-056-355B-116717 | Sequence 116717, A  | 793 | 6 | 2.2 | 544 | 7 | US-11-056-355B-91707  | Sequence 91707, A  |
| 721 | 6 | 2.2 | 454 | 7 | US-11-330-403-16662   | Sequence 16662, A   | 794 | 6 | 2.2 | 544 | 7 | US-11-056-355B-95463  | Sequence 95463, A  |
| 722 | 6 | 2.2 | 457 | 6 | US-10-449-902-31359   | Sequence 31359, A   | 795 | 6 | 2.2 | 545 | 6 | US-10-449-902-45700   | Sequence 45700, A  |
| 723 | 6 | 2.2 | 457 | 6 | US-10-449-902-50709   | Sequence 50709, A   | 796 | 6 | 2.2 | 545 | 6 | US-10-449-902-54783   | Sequence 54783, A  |
| 724 | 6 | 2.2 | 457 | 6 | US-11-056-355B-50485  | Sequence 50485, A   | 797 | 6 | 2.2 | 546 | 6 | US-10-828-564-11      | Sequence 11, Appl1 |
| 725 | 6 | 2.2 | 458 | 7 | US-11-330-403-16735   | Sequence 16735, A   | 798 | 6 | 2.2 | 548 | 7 | US-11-330-403-12485   | Sequence 12485, A  |
| 726 | 6 | 2.2 | 459 | 7 | US-11-330-403-14207   | Sequence 14207, A   | 799 | 6 | 2.2 | 552 | 7 | US-11-233-089-40      | Sequence 40, Appl1 |
| 727 | 6 | 2.2 | 460 | 7 | US-11-056-355B-17075  | Sequence 17075, A   | 800 | 6 | 2.2 | 553 | 6 | US-10-953-349-40238   | Sequence 40238, A  |
| 728 | 6 | 2.2 | 461 | 6 | US-10-505-928-382     | Sequence 282, App   | 801 | 6 | 2.2 | 555 | 7 | US-11-056-355B-79761  | Sequence 79761, A  |
| 729 | 6 | 2.2 | 461 | 6 | US-10-953-349-20043   | Sequence 20043, A   | 802 | 6 | 2.2 | 557 | 7 | US-11-056-355B-45489  | Sequence 45489, A  |
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| 731 | 6 | 2.2 | 462 | 7 | US-11-056-355B-67037  | Sequence 67037, A   | 804 | 6 | 2.2 | 560 | 6 | US-10-953-349-33923   | Sequence 3923, App |
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| 734 | 6 | 2.2 | 466 | 6 | US-11-056-355B-54770  | Sequence 54770, A   | 807 | 6 | 2.2 | 565 | 6 | US-10-511-937-2957    | Sequence 2957, App |
| 735 | 6 | 2.2 | 467 | 6 | US-10-449-902-55368   | Sequence 55368, A   | 808 | 6 | 2.2 | 569 | 7 | US-11-056-355B-45673  | Sequence 45673, A  |
| 736 | 6 | 2.2 | 471 | 7 | US-11-056-355B-16196  | Sequence 16196, A   | 809 | 6 | 2.2 | 569 | 7 | US-11-056-355B-87468  | Sequence 87468, A  |
| 737 | 6 | 2.2 | 472 | 7 | US-11-056-355B-44876  | Sequence 44876, A   | 810 | 6 | 2.2 | 572 | 7 | US-11-056-355B-79760  | Sequence 79760, A  |
| 738 | 6 | 2.2 | 475 | 6 | US-10-449-902-47845   | Sequence 47845, A   | 811 | 6 | 2.2 | 573 | 7 | US-11-330-403-3412    | Sequence 3412, App |
| 739 | 6 | 2.2 | 477 | 6 | US-10-953-349-19680   | Sequence 19680, A   | 813 | 6 | 2.2 | 578 | 6 | US-10-449-902-35348   | Sequence 35348, A  |
| 740 | 6 | 2.2 | 478 | 7 | US-11-056-355B-80132  | Sequence 80132, A   | 814 | 6 | 2.2 | 578 | 6 | US-10-449-902-54497   | Sequence 54497, A  |
| 741 | 6 | 2.2 | 480 | 6 | US-10-449-902-36654   | Sequence 36654, A   | 815 | 6 | 2.2 | 578 | 6 | US-10-449-902-55745   | Sequence 55745, A  |
| 742 | 6 | 2.2 | 481 | 7 | US-11-056-355B-13293  | Sequence 13293, A   | 816 | 6 | 2.2 | 580 | 7 | US-11-056-355B-45672  | Sequence 45672, A  |
| 743 | 6 | 2.2 | 484 | 6 | US-10-449-902-4153    | Sequence 4153, A    | 817 | 6 | 2.2 | 582 | 6 | US-10-449-902-42309   | Sequence 42309, A  |
| 744 | 6 | 2.2 | 484 | 6 | US-10-449-902-45190   | Sequence 45190, A   | 818 | 6 | 2.2 | 582 | 6 | US-10-449-902-44838   | Sequence 44838, A  |
| 745 | 6 | 2.2 | 484 | 6 | US-11-330-403-11933   | Sequence 11933, A   | 819 | 6 | 2.2 | 582 | 7 | US-11-174-307B-4566   | Sequence 4566, App |
| 746 | 6 | 2.2 | 485 | 6 | US-10-953-349-37983   | Sequence 37983, A   | 820 | 6 | 2.2 | 585 | 6 | US-10-449-902-37983   | Sequence 37983, A  |
| 747 | 6 | 2.2 | 485 | 6 | US-11-056-355B-10253  | Sequence 10253, A   | 821 | 6 | 2.2 | 581 | 6 | US-10-953-349-32069   | Sequence 32069, A  |
| 748 | 6 | 2.2 | 486 | 7 | US-11-174-307B-82     | Sequence 82, Appl1  | 822 | 6 | 2.2 | 581 | 7 | US-11-056-355B-66331  | Sequence 66331, A  |
| 749 | 6 | 2.2 | 486 | 7 | US-11-330-403-269     | Sequence 269, App   | 823 | 6 | 2.2 | 597 | 7 | US-11-311-778-16      | Sequence 16, Appl1 |
| 750 | 6 | 2.2 | 487 | 6 | US-10-449-902-36803   | Sequence 36803, A   | 824 | 6 | 2.2 | 611 | 6 | US-10-953-349-3922    | Sequence 3922, App |
| 751 | 6 | 2.2 | 490 | 7 | US-11-293-697-3621    | Sequence 3621, App  | 825 | 6 | 2.2 | 619 | 7 | US-11-312-958-46      | Sequence 46, Appl1 |
| 752 | 6 | 2.2 | 491 | 7 | US-11-056-355B-45491  | Sequence 45491, A   | 826 | 6 | 2.2 | 621 | 7 | US-11-293-697-4148    | Sequence 4148, App |
| 753 | 6 | 2.2 | 491 | 7 | US-11-056-355B-50869  | Sequence 50869, A   | 827 | 6 | 2.2 | 624 | 6 | US-10-953-349-3921    | Sequence 3921, App |
| 754 | 6 | 2.2 | 493 | 6 | US-10-449-902-45138   | Sequence 45138, A   | 828 | 6 | 2.2 | 626 | 7 | US-11-056-355B-106816 | Sequence 106816, A |
| 755 | 6 | 2.2 | 493 | 6 | US-11-293-697-1124    | Sequence 4124, App  | 829 | 6 | 2.2 | 626 | 7 | US-11-056-355B-118055 | Sequence 118055, A |
| 756 | 6 | 2.2 | 498 | 6 | US-10-449-902-36716   | Sequence 36716, A   | 830 | 6 | 2.2 | 630 | 7 | US-11-056-355B-118054 | Sequence 118054, A |
| 757 | 6 | 2.2 | 498 | 6 | US-10-449-902-48560   | Sequence 48560, A   | 831 | 6 | 2.2 | 630 | 7 | US-11-056-355B-118054 | Sequence 118054, A |
| 758 | 6 | 2.2 | 498 | 6 | US-10-449-902-55170   | Sequence 55170, A   | 832 | 6 | 2.2 | 639 | 7 | US-11-056-355B-118053 | Sequence 118053, A |
| 759 | 6 | 2.2 | 499 | 7 | US-10-953-349-21285   | Sequence 21285, A   | 833 | 6 | 2.2 | 639 | 7 | US-11-056-355B-118053 | Sequence 118053, A |
| 760 | 6 | 2.2 | 499 | 7 | US-11-056-355B-54769  | Sequence 54769, A   | 834 | 6 | 2.2 | 640 | 7 | US-11-056-355B-79759  | Sequence 79759, A  |

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| 835 | 6 | 2.2 | 641 | 7 | US-11-056-355B-91706  | Sequence 91706, A  | 908 | 6 | 2.2 | 867  | 6 | US-10-449-902-53235  | Sequence 53235, A  |
| 836 | 6 | 2.2 | 641 | 7 | US-11-056-355B-95462  | Sequence 95462, A  | 909 | 6 | 2.2 | 869  | 6 | US-10-449-902-46563  | Sequence 46563, A  |
| 837 | 6 | 2.2 | 644 | 7 | US-11-174-307B-4730   | Sequence 4730, Ap  | 910 | 6 | 2.2 | 868  | 7 | US-11-174-307B-8832  | Sequence 8832, Ap  |
| 838 | 6 | 2.2 | 644 | 6 | US-10-953-349-19678   | Sequence 19678, A  | 911 | 6 | 2.2 | 884  | 7 | US-11-174-307B-1892  | Sequence 1892, Ap  |
| 839 | 6 | 2.2 | 646 | 6 | US-10-449-902-53749   | Sequence 53749, A  | 912 | 6 | 2.2 | 907  | 7 | US-11-174-307B-1040  | Sequence 1040, Ap  |
| 840 | 6 | 2.2 | 648 | 6 | US-10-953-349-16895   | Sequence 16895, A  | 913 | 6 | 2.2 | 928  | 7 | US-11-056-355B-87467 | Sequence 87467, A  |
| 841 | 6 | 2.2 | 648 | 7 | US-11-056-355B-59503  | Sequence 59503, A  | 914 | 6 | 2.2 | 937  | 7 | US-11-330-403-11508  | Sequence 11508, A  |
| 842 | 6 | 2.2 | 651 | 7 | US-11-289-102-230     | Sequence 230, App  | 915 | 6 | 2.2 | 943  | 7 | US-11-056-355B-81299 | Sequence 81299, A  |
| 843 | 6 | 2.2 | 656 | 6 | US-10-449-902-38110   | Sequence 38110, A  | 916 | 6 | 2.2 | 960  | 7 | US-11-330-403-6805   | Sequence 6805, Ap  |
| 844 | 6 | 2.2 | 659 | 6 | US-10-449-902-55998   | Sequence 55998, A  | 917 | 6 | 2.2 | 961  | 6 | US-10-199-229-13     | Sequence 9, App11  |
| 845 | 6 | 2.2 | 660 | 6 | US-10-449-902-44635   | Sequence 44635, A  | 918 | 6 | 2.2 | 992  | 6 | US-11-056-355B-87466 | Sequence 87466, A  |
| 846 | 6 | 2.2 | 660 | 6 | US-10-449-902-48054   | Sequence 48054, A  | 919 | 6 | 2.2 | 994  | 6 | US-10-449-902-55960  | Sequence 55960, A  |
| 847 | 6 | 2.2 | 660 | 6 | US-10-449-902-53574   | Sequence 53574, A  | 920 | 6 | 2.2 | 997  | 7 | US-11-174-307B-1976  | Sequence 1976, Ap  |
| 848 | 6 | 2.2 | 661 | 6 | US-10-449-902-51093   | Sequence 51012, A  | 921 | 6 | 2.2 | 998  | 6 | US-10-449-902-42257  | Sequence 42257, A  |
| 849 | 6 | 2.2 | 661 | 6 | US-10-449-902-51093   | Sequence 51012, A  | 922 | 6 | 2.2 | 998  | 6 | US-10-449-902-42257  | Sequence 42257, A  |
| 850 | 6 | 2.2 | 667 | 6 | US-10-449-902-42881   | Sequence 42881, A  | 923 | 6 | 2.2 | 972  | 6 | US-10-449-902-41420  | Sequence 41420, A  |
| 851 | 6 | 2.2 | 668 | 7 | US-11-056-355B-91705  | Sequence 91705, A  | 924 | 6 | 2.2 | 978  | 6 | US-10-953-349-9199   | Sequence 9199, Ap  |
| 852 | 6 | 2.2 | 668 | 7 | US-11-056-355B-95461  | Sequence 95461, A  | 925 | 6 | 2.2 | 983  | 7 | US-11-174-307B-2434  | Sequence 2434, Ap  |
| 853 | 6 | 2.2 | 671 | 6 | US-10-953-349-14214   | Sequence 14214, A  | 926 | 6 | 2.2 | 985  | 7 | US-11-174-307B-5470  | Sequence 5470, Ap  |
| 854 | 6 | 2.2 | 671 | 6 | US-10-449-902-44715   | Sequence 44715, A  | 927 | 6 | 2.2 | 987  | 7 | US-11-330-403-13361  | Sequence 13361, A  |
| 855 | 6 | 2.2 | 671 | 7 | US-11-056-355B-18275  | Sequence 18275, A  | 928 | 6 | 2.2 | 995  | 7 | US-11-238-031-14     | Sequence 14, App1  |
| 856 | 6 | 2.2 | 672 | 7 | US-11-330-403-5134    | Sequence 4134, Ap  | 929 | 6 | 2.2 | 995  | 7 | US-11-174-307B-1572  | Sequence 1572, Ap  |
| 857 | 6 | 2.2 | 672 | 7 | US-11-330-403-5134    | Sequence 5134, Ap  | 930 | 6 | 2.2 | 996  | 7 | US-11-293-716-60     | Sequence 60, App1  |
| 858 | 6 | 2.2 | 675 | 6 | US-10-449-902-52984   | Sequence 52984, A  | 931 | 6 | 2.2 | 998  | 7 | US-11-330-403-13357  | Sequence 13357, A  |
| 859 | 6 | 2.2 | 691 | 7 | US-11-056-355B-108059 | Sequence 108059, A | 932 | 6 | 2.2 | 998  | 7 | US-11-330-403-13360  | Sequence 13360, A  |
| 860 | 6 | 2.2 | 698 | 7 | US-11-056-355B-118298 | Sequence 118298, A | 933 | 6 | 2.2 | 999  | 7 | US-11-330-403-17817  | Sequence 1422, Ap  |
| 861 | 6 | 2.2 | 698 | 6 | US-10-953-349-4543    | Sequence 4543, Ap  | 934 | 6 | 2.2 | 1000 | 6 | US-10-449-902-43447  | Sequence 17817, A  |
| 862 | 6 | 2.2 | 699 | 6 | US-10-953-349-16894   | Sequence 16894, A  | 935 | 6 | 2.2 | 1000 | 6 | US-10-449-902-43447  | Sequence 43247, A  |
| 863 | 6 | 2.2 | 699 | 7 | US-11-056-355B-59502  | Sequence 59502, A  | 936 | 6 | 2.2 | 1001 | 6 | US-10-449-902-41315  | Sequence 41315, A  |
| 864 | 6 | 2.2 | 700 | 6 | US-10-505-928-351     | Sequence 351, App  | 937 | 6 | 2.2 | 1002 | 6 | US-10-449-902-45681  | Sequence 45681, A  |
| 865 | 6 | 2.2 | 700 | 6 | US-10-953-349-16893   | Sequence 16893, A  | 938 | 6 | 2.2 | 1017 | 7 | US-11-174-307B-3140  | Sequence 3140, Ap  |
| 866 | 6 | 2.2 | 700 | 6 | US-11-056-355B-59501  | Sequence 59501, A  | 939 | 6 | 2.2 | 1022 | 7 | US-11-174-307B-4296  | Sequence 4296, Ap  |
| 867 | 6 | 2.2 | 701 | 6 | US-10-449-902-55705   | Sequence 55705, A  | 940 | 6 | 2.2 | 1027 | 7 | US-11-174-307B-4296  | Sequence 4296, Ap  |
| 868 | 6 | 2.2 | 702 | 7 | US-11-056-355B-95973  | Sequence 95973, A  | 941 | 6 | 2.2 | 1029 | 7 | US-11-174-307B-1824  | Sequence 1824, Ap  |
| 869 | 6 | 2.2 | 703 | 7 | US-11-174-307B-270    | Sequence 270, App  | 942 | 6 | 2.2 | 1029 | 7 | US-11-174-307B-1824  | Sequence 81298, A  |
| 870 | 6 | 2.2 | 703 | 7 | US-11-056-355B-18274  | Sequence 18274, A  | 943 | 6 | 2.2 | 1033 | 6 | US-10-449-902-42950  | Sequence 42950, A  |
| 871 | 6 | 2.2 | 707 | 6 | US-10-449-902-53248   | Sequence 53248, A  | 944 | 6 | 2.2 | 1037 | 6 | US-11-174-307B-1368  | Sequence 1268, Ap  |
| 872 | 6 | 2.2 | 708 | 6 | US-10-449-902-51793   | Sequence 51793, A  | 945 | 6 | 2.2 | 1049 | 6 | US-10-449-902-50776  | Sequence 50776, A  |
| 873 | 6 | 2.2 | 709 | 6 | US-10-953-349-4542    | Sequence 4542, Ap  | 946 | 6 | 2.2 | 1055 | 6 | US-10-449-902-45573  | Sequence 45573, A  |
| 874 | 6 | 2.2 | 712 | 7 | US-11-105-233-162     | Sequence 162, App  | 947 | 6 | 2.2 | 1055 | 7 | US-11-174-307B-2854  | Sequence 2854, Ap  |
| 875 | 6 | 2.2 | 713 | 6 | US-10-449-902-47007   | Sequence 47007, A  | 948 | 6 | 2.2 | 1058 | 7 | US-11-174-307B-4280  | Sequence 4280, App |
| 876 | 6 | 2.2 | 714 | 6 | US-10-449-902-45765   | Sequence 45765, A  | 949 | 6 | 2.2 | 1058 | 7 | US-11-174-307B-1586  | Sequence 1586, Ap  |
| 877 | 6 | 2.2 | 714 | 6 | US-10-449-902-45951   | Sequence 45951, A  | 950 | 6 | 2.2 | 1059 | 7 | US-11-174-307B-1950  | Sequence 1950, Ap  |
| 878 | 6 | 2.2 | 715 | 6 | US-10-471-571A-2272   | Sequence 2272, Ap  | 951 | 6 | 2.2 | 1060 | 7 | US-11-174-307B-2216  | Sequence 2216, Ap  |
| 879 | 6 | 2.2 | 715 | 7 | US-11-056-355B-95739  | Sequence 95739, A  | 952 | 6 | 2.2 | 1061 | 7 | US-11-174-307B-1894  | Sequence 1894, Ap  |
| 880 | 6 | 2.2 | 719 | 6 | US-10-449-902-66440   | Sequence 66440, A  | 953 | 6 | 2.2 | 1069 | 7 | US-11-174-307B-1128  | Sequence 1228, Ap  |
| 881 | 6 | 2.2 | 723 | 6 | US-10-449-902-36818   | Sequence 36818, A  | 954 | 6 | 2.2 | 1070 | 6 | US-10-449-902-39911  | Sequence 39911, A  |
| 882 | 6 | 2.2 | 725 | 6 | US-10-953-349-4541    | Sequence 4541, Ap  | 955 | 6 | 2.2 | 1081 | 7 | US-11-174-307B-308   | Sequence 308, App  |
| 883 | 6 | 2.2 | 728 | 6 | US-10-449-902-50992   | Sequence 50992, A  | 956 | 6 | 2.2 | 1082 | 6 | US-10-449-902-47085  | Sequence 47085, A  |
| 884 | 6 | 2.2 | 731 | 7 | US-11-056-355B-108058 | Sequence 108058, A | 957 | 6 | 2.2 | 1086 | 7 | US-11-174-307B-600   | Sequence 600, App  |
| 885 | 6 | 2.2 | 731 | 7 | US-11-056-355B-118297 | Sequence 118297, A | 958 | 6 | 2.2 | 1094 | 7 | US-11-174-307B-438   | Sequence 438, App  |
| 886 | 6 | 2.2 | 733 | 7 | US-11-174-307B-810    | Sequence 810, App  | 959 | 6 | 2.2 | 1094 | 7 | US-11-174-307B-1356  | Sequence 1356, App |
| 887 | 6 | 2.2 | 738 | 7 | US-11-056-355B-108057 | Sequence 108057, A | 960 | 6 | 2.2 | 1108 | 7 | US-11-174-307B-1122  | Sequence 1122, Ap  |
| 888 | 6 | 2.2 | 738 | 7 | US-11-056-355B-118296 | Sequence 118296, A | 961 | 6 | 2.2 | 1129 | 7 | US-11-174-307B-332   | Sequence 332, App  |
| 889 | 6 | 2.2 | 742 | 7 | US-11-056-355B-95972  | Sequence 95972, A  | 962 | 6 | 2.2 | 1140 | 7 | US-11-174-307B-114   | Sequence 114, App  |
| 890 | 6 | 2.2 | 743 | 6 | US-10-449-902-37717   | Sequence 37717, A  | 963 | 6 | 2.2 | 1147 | 7 | US-11-174-307B-2286  | Sequence 2286, Ap  |
| 891 | 6 | 2.2 | 744 | 7 | US-11-330-403-7082    | Sequence 7082, Ap  | 964 | 6 | 2.2 | 1147 | 7 | US-11-247-437-6      | Sequence 6, App11  |
| 892 | 6 | 2.2 | 749 | 7 | US-11-056-355B-95971  | Sequence 95971, A  | 965 | 6 | 2.2 | 1153 | 7 | US-11-174-307B-500   | Sequence 500, App  |
| 893 | 6 | 2.2 | 750 | 6 | US-10-511-937-2413    | Sequence 2413, Ap  | 966 | 6 | 2.2 | 1160 | 7 | US-11-174-307B-2370  | Sequence 2370, Ap  |
| 894 | 6 | 2.2 | 754 | 6 | US-10-953-349-9200    | Sequence 9200, Ap  | 967 | 6 | 2.2 | 1161 | 7 | US-11-174-307B-1150  | Sequence 1150, Ap  |
| 895 | 6 | 2.2 | 757 | 6 | US-10-449-902-55633   | Sequence 55633, A  | 968 | 6 | 2.2 | 1162 | 7 | US-11-174-307B-2544  | Sequence 2244, Ap  |
| 896 | 6 | 2.2 | 760 | 6 | US-10-953-349-11503   | Sequence 11503, A  | 969 | 6 | 2.2 | 1164 | 7 | US-11-174-307B-1208  | Sequence 1208, Ap  |
| 897 | 6 | 2.2 | 767 | 6 | US-10-449-902-56749   | Sequence 56749, A  | 970 | 6 | 2.2 | 1168 | 7 | US-11-174-307B-1208  | Sequence 700, App  |
| 898 | 6 | 2.2 | 768 | 6 | US-10-449-902-54720   | Sequence 54720, A  | 971 | 6 | 2.2 | 1168 | 7 | US-11-174-307B-3426  | Sequence 3226, App |
| 899 | 6 | 2.2 | 788 | 6 | US-10-449-902-54720   | Sequence 54720, A  | 972 | 6 | 2.2 | 1174 | 6 | US-10-953-349-9198   | Sequence 9198, App |
| 900 | 6 | 2.2 | 795 | 6 | US-11-238-031-142     | Sequence 142, App  | 973 | 6 | 2.2 | 1174 | 6 | US-11-174-307B-666   | Sequence 666, App  |
| 901 | 6 | 2.2 | 801 | 6 | US-10-539-228-666     | Sequence 666, App  | 974 | 6 | 2.2 | 1179 | 7 | US-11-174-307B-508   | Sequence 508, App  |
| 902 | 6 | 2.2 | 817 | 6 | US-10-449-902-50277   | Sequence 50277, A  | 975 | 6 | 2.2 | 1187 | 7 | US-11-174-307B-1142  | Sequence 1142, App |
| 903 | 6 | 2.2 | 829 | 7 | US-11-274-634-16      | Sequence 16, App1  | 976 | 6 | 2.2 | 1197 | 7 | US-11-174-307B-1382  | Sequence 1382, Ap  |
| 904 | 6 | 2.2 | 831 | 7 | US-11-174-307B-1974   | Sequence 1974, Ap  | 977 | 6 | 2.2 | 1217 | 7 | US-11-105-233-186    | Sequence 186, App  |
| 905 | 6 | 2.2 | 832 | 6 | US-10-505-928-491     | Sequence 491, App  | 978 | 6 | 2.2 | 1217 | 7 | US-11-174-307B-4324  | Sequence 4324, Ap  |
| 906 | 6 | 2.2 | 832 | 6 | US-11-174-307B-1334   | Sequence 1334, Ap  | 979 | 6 | 2.2 | 1219 | 7 | US-11-174-307B-1462  | Sequence 1462, Ap  |
| 907 | 6 | 2.2 | 838 | 6 | US-11-174-307B-808    | Sequence 808, App  | 980 | 6 | 2.2 | 1220 | 7 | US-11-273-537-34     | Sequence 34, App1  |
| 908 | 6 | 2.2 | 848 | 6 | US-10-449-902-36522   | Sequence 36522, A  | 981 | 6 | 2.2 | 1220 | 7 | US-11-273-537-34     | Sequence 34, App1  |

|      |   |     |      |   |                     |                   |      |   |     |      |   |                     |                    |
|------|---|-----|------|---|---------------------|-------------------|------|---|-----|------|---|---------------------|--------------------|
| 982  | 6 | 2.2 | 1220 | 7 | US-11-174-307B-2404 | Sequence 2404, Ap | 1055 | 6 | 2.2 | 1439 | 7 | US-11-174-307B-604  | Sequence 604, App  |
| 983  | 6 | 2.2 | 1231 | 7 | US-11-174-307B-362  | Sequence 362, Ap  | 1056 | 6 | 2.2 | 1439 | 7 | US-11-174-307B-3364 | Sequence 3364, App |
| 984  | 6 | 2.2 | 1232 | 7 | US-11-174-307B-2688 | Sequence 2688, Ap | 1057 | 6 | 2.2 | 1443 | 7 | US-11-174-307B-870  | Sequence 870, App  |
| 985  | 6 | 2.2 | 1233 | 7 | US-11-174-307B-2472 | Sequence 2472, Ap | 1058 | 6 | 2.2 | 1445 | 7 | US-11-174-307B-3368 | Sequence 3368, App |
| 986  | 6 | 2.2 | 1234 | 7 | US-11-174-307B-1958 | Sequence 1958, Ap | 1059 | 6 | 2.2 | 1448 | 7 | US-11-174-307B-2194 | Sequence 2194, App |
| 987  | 6 | 2.2 | 1235 | 7 | US-11-174-307B-788  | Sequence 788, App | 1060 | 6 | 2.2 | 1450 | 7 | US-11-174-307B-1138 | Sequence 1138, Ap  |
| 988  | 6 | 2.2 | 1230 | 7 | US-11-174-307B-1156 | Sequence 1156, Ap | 1061 | 6 | 2.2 | 1457 | 7 | US-11-174-307B-1094 | Sequence 1094, Ap  |
| 989  | 6 | 2.2 | 1231 | 7 | US-11-174-307B-834  | Sequence 834, App | 1062 | 6 | 2.2 | 1462 | 7 | US-11-174-307B-1056 | Sequence 1056, Ap  |
| 990  | 6 | 2.2 | 1242 | 7 | US-11-174-307B-410  | Sequence 410, App | 1063 | 6 | 2.2 | 1463 | 7 | US-11-288-992-48    | Sequence 48, App1  |
| 991  | 6 | 2.2 | 1243 | 7 | US-11-174-307B-1852 | Sequence 1852, Ap | 1064 | 6 | 2.2 | 1464 | 7 | US-11-174-307B-1116 | Sequence 1116, Ap  |
| 992  | 6 | 2.2 | 1244 | 7 | US-11-174-307B-2498 | Sequence 2498, Ap | 1065 | 6 | 2.2 | 1478 | 7 | US-11-174-307B-1476 | Sequence 1476, Ap  |
| 993  | 6 | 2.2 | 1245 | 7 | US-11-174-307B-3982 | Sequence 3982, Ap | 1066 | 6 | 2.2 | 1479 | 7 | US-11-174-307B-460  | Sequence 460, App  |
| 994  | 6 | 2.2 | 1248 | 7 | US-11-174-307B-28   | Sequence 28, App1 | 1067 | 6 | 2.2 | 1482 | 7 | US-11-174-307B-1804 | Sequence 1804, Ap  |
| 995  | 6 | 2.2 | 1250 | 7 | US-11-174-307B-1888 | Sequence 1888, Ap | 1068 | 6 | 2.2 | 1485 | 7 | US-11-174-307B-2206 | Sequence 2206, Ap  |
| 996  | 6 | 2.2 | 1251 | 7 | US-11-174-307B-426  | Sequence 426, App | 1069 | 6 | 2.2 | 1486 | 7 | US-11-174-307B-684  | Sequence 684, App  |
| 997  | 6 | 2.2 | 1252 | 7 | US-11-174-307B-536  | Sequence 536, App | 1070 | 6 | 2.2 | 1486 | 7 | US-11-174-307B-2236 | Sequence 2236, Ap  |
| 998  | 6 | 2.2 | 1252 | 7 | US-11-174-307B-966  | Sequence 966, App | 1071 | 6 | 2.2 | 1501 | 7 | US-11-174-307B-1648 | Sequence 1648, Ap  |
| 999  | 6 | 2.2 | 1254 | 7 | US-11-174-307B-686  | Sequence 686, App | 1072 | 6 | 2.2 | 1505 | 7 | US-11-174-307B-1822 | Sequence 1822, Ap  |
| 1000 | 6 | 2.2 | 1260 | 7 | US-11-174-307B-1794 | Sequence 1794, Ap | 1073 | 6 | 2.2 | 1512 | 7 | US-11-174-307B-584  | Sequence 584, App  |
| 1001 | 6 | 2.2 | 1266 | 7 | US-11-174-307B-478  | Sequence 478, App | 1074 | 6 | 2.2 | 1513 | 7 | US-11-174-307B-550  | Sequence 550, App  |
| 1002 | 6 | 2.2 | 1274 | 7 | US-11-174-307B-1848 | Sequence 1848, Ap | 1075 | 6 | 2.2 | 1516 | 7 | US-11-174-307B-4074 | Sequence 4074, Ap  |
| 1003 | 6 | 2.2 | 1277 | 7 | US-11-174-307B-634  | Sequence 634, App | 1076 | 6 | 2.2 | 1517 | 7 | US-11-174-307B-616  | Sequence 616, App  |
| 1004 | 6 | 2.2 | 1285 | 7 | US-11-174-307B-2386 | Sequence 2386, Ap | 1077 | 6 | 2.2 | 1521 | 7 | US-11-174-307B-1956 | Sequence 1956, Ap  |
| 1005 | 6 | 2.2 | 1286 | 7 | US-11-174-307B-1186 | Sequence 1186, Ap | 1078 | 6 | 2.2 | 1522 | 7 | US-11-174-307B-1098 | Sequence 1098, Ap  |
| 1006 | 6 | 2.2 | 1287 | 7 | US-11-174-307B-1024 | Sequence 1024, Ap | 1079 | 6 | 2.2 | 1522 | 7 | US-11-174-307B-1154 | Sequence 1154, App |
| 1007 | 6 | 2.2 | 1287 | 7 | US-11-174-307B-2632 | Sequence 2632, Ap | 1080 | 6 | 2.2 | 1522 | 7 | US-11-174-307B-766  | Sequence 766, App  |
| 1008 | 6 | 2.2 | 1289 | 7 | US-11-174-307B-434  | Sequence 434, App | 1081 | 6 | 2.2 | 1524 | 7 | US-11-174-307B-2656 | Sequence 2656, Ap  |
| 1009 | 6 | 2.2 | 1292 | 7 | US-11-174-307B-514  | Sequence 514, App | 1082 | 6 | 2.2 | 1527 | 7 | US-11-174-307B-1278 | Sequence 1278, Ap  |
| 1010 | 6 | 2.2 | 1293 | 7 | US-11-174-307B-1736 | Sequence 1736, Ap | 1083 | 6 | 2.2 | 1528 | 7 | US-11-174-307B-4664 | Sequence 4664, Ap  |
| 1011 | 6 | 2.2 | 1293 | 7 | US-11-174-307B-502  | Sequence 502, App | 1084 | 6 | 2.2 | 1528 | 7 | US-11-174-307B-1114 | Sequence 1114, Ap  |
| 1012 | 6 | 2.2 | 1293 | 7 | US-11-174-307B-824  | Sequence 824, App | 1085 | 6 | 2.2 | 1533 | 7 | US-11-174-307B-78   | Sequence 78, App1  |
| 1013 | 6 | 2.2 | 1298 | 7 | US-11-174-307B-560  | Sequence 560, App | 1086 | 6 | 2.2 | 1536 | 7 | US-11-174-307B-2654 | Sequence 2654, Ap  |
| 1014 | 6 | 2.2 | 1310 | 7 | US-11-174-307B-1186 | Sequence 1186, Ap | 1087 | 6 | 2.2 | 1536 | 7 | US-11-174-307B-1218 | Sequence 1218, Ap  |
| 1015 | 6 | 2.2 | 1315 | 7 | US-11-174-307B-610  | Sequence 610, App | 1088 | 6 | 2.2 | 1538 | 7 | US-11-174-307B-996  | Sequence 996, App  |
| 1016 | 6 | 2.2 | 1316 | 7 | US-11-174-307B-588  | Sequence 588, App | 1089 | 6 | 2.2 | 1581 | 7 | US-11-174-307B-1172 | Sequence 1172, Ap  |
| 1017 | 6 | 2.2 | 1320 | 7 | US-11-174-307B-2270 | Sequence 2270, Ap | 1090 | 6 | 2.2 | 1582 | 7 | US-11-174-307B-2072 | Sequence 2072, Ap  |
| 1018 | 6 | 2.2 | 1324 | 7 | US-11-174-307B-1210 | Sequence 1210, Ap | 1091 | 6 | 2.2 | 1588 | 7 | US-11-174-307B-1050 | Sequence 1050, Ap  |
| 1019 | 6 | 2.2 | 1326 | 7 | US-11-174-307B-1514 | Sequence 1514, Ap | 1092 | 6 | 2.2 | 1599 | 7 | US-11-174-307B-2686 | Sequence 2686, Ap  |
| 1020 | 6 | 2.2 | 1333 | 7 | US-11-174-307B-2520 | Sequence 2520, Ap | 1093 | 6 | 2.2 | 1604 | 7 | US-11-174-307B-1410 | Sequence 1410, Ap  |
| 1021 | 6 | 2.2 | 1335 | 7 | US-11-174-307B-2138 | Sequence 2138, Ap | 1094 | 6 | 2.2 | 1605 | 7 | US-11-174-307B-1410 | Sequence 1410, Ap  |
| 1022 | 6 | 2.2 | 1335 | 7 | US-11-174-307B-3964 | Sequence 3964, Ap | 1095 | 6 | 2.2 | 1610 | 7 | US-11-174-307B-1472 | Sequence 1472, Ap  |
| 1023 | 6 | 2.2 | 1336 | 7 | US-11-174-307B-1036 | Sequence 1036, Ap | 1096 | 6 | 2.2 | 1611 | 7 | US-11-174-307B-2234 | Sequence 2234, Ap  |
| 1024 | 6 | 2.2 | 1344 | 7 | US-11-174-307B-1940 | Sequence 1940, Ap | 1097 | 6 | 2.2 | 1611 | 7 | US-11-174-307B-2252 | Sequence 2252, Ap  |
| 1025 | 6 | 2.2 | 1346 | 7 | US-11-174-307B-3818 | Sequence 3818, Ap | 1098 | 6 | 2.2 | 1617 | 7 | US-11-174-307B-2182 | Sequence 2182, Ap  |
| 1026 | 6 | 2.2 | 1347 | 7 | US-11-174-307B-844  | Sequence 844, App | 1099 | 6 | 2.2 | 1620 | 7 | US-11-174-307B-620  | Sequence 620, App  |
| 1027 | 6 | 2.2 | 1347 | 7 | US-11-174-307B-1066 | Sequence 1066, Ap | 1100 | 6 | 2.2 | 1623 | 7 | US-11-174-307B-2406 | Sequence 2406, Ap  |
| 1028 | 6 | 2.2 | 1360 | 7 | US-11-330-403-4001  | Sequence 4001, Ap | 1101 | 6 | 2.2 | 1641 | 7 | US-11-174-307B-760  | Sequence 760, App  |
| 1029 | 6 | 2.2 | 1363 | 7 | US-11-174-307B-4900 | Sequence 4900, Ap | 1102 | 6 | 2.2 | 1642 | 7 | US-11-174-307B-1424 | Sequence 1424, Ap  |
| 1030 | 6 | 2.2 | 1365 | 7 | US-11-174-307B-2290 | Sequence 2290, Ap | 1103 | 6 | 2.2 | 1652 | 7 | US-11-174-307B-1450 | Sequence 1450, Ap  |
| 1031 | 6 | 2.2 | 1365 | 7 | US-11-174-307B-2318 | Sequence 2318, Ap | 1104 | 6 | 2.2 | 1655 | 7 | US-11-174-307B-3630 | Sequence 3630, Ap  |
| 1032 | 6 | 2.2 | 1369 | 7 | US-11-174-307B-2154 | Sequence 2154, Ap | 1105 | 6 | 2.2 | 1657 | 7 | US-11-174-307B-642  | Sequence 642, App  |
| 1033 | 6 | 2.2 | 1370 | 7 | US-11-174-307B-2490 | Sequence 2490, Ap | 1106 | 6 | 2.2 | 1658 | 7 | US-11-174-307B-3184 | Sequence 3184, Ap  |
| 1034 | 6 | 2.2 | 1382 | 7 | US-11-174-307B-828  | Sequence 828, App | 1107 | 6 | 2.2 | 1659 | 7 | US-11-174-307B-938  | Sequence 938, App  |
| 1035 | 6 | 2.2 | 1382 | 7 | US-11-174-307B-2432 | Sequence 2402, Ap | 1108 | 6 | 2.2 | 1653 | 7 | US-11-174-307B-1726 | Sequence 1726, Ap  |
| 1036 | 6 | 2.2 | 1387 | 7 | US-11-174-307B-3992 | Sequence 3992, Ap | 1109 | 6 | 2.2 | 1655 | 7 | US-11-174-307B-1126 | Sequence 2696, Ap  |
| 1037 | 6 | 2.2 | 1391 | 7 | US-11-174-307B-4782 | Sequence 4782, Ap | 1110 | 6 | 2.2 | 1665 | 7 | US-11-174-307B-2896 | Sequence 546, App  |
| 1038 | 6 | 2.2 | 1394 | 7 | US-11-174-307B-2146 | Sequence 2146, Ap | 1111 | 6 | 2.2 | 1676 | 7 | US-11-174-307B-516  | Sequence 516, App  |
| 1039 | 6 | 2.2 | 1401 | 7 | US-11-174-307B-2764 | Sequence 2764, Ap | 1112 | 6 | 2.2 | 1685 | 7 | US-11-174-307B-2212 | Sequence 2212, Ap  |
| 1040 | 6 | 2.2 | 1407 | 7 | US-11-174-307B-448  | Sequence 448, App | 1113 | 6 | 2.2 | 1686 | 7 | US-11-174-307B-1802 | Sequence 1802, Ap  |
| 1041 | 6 | 2.2 | 1407 | 7 | US-11-174-307B-464  | Sequence 464, App | 1114 | 6 | 2.2 | 1692 | 7 | US-11-174-307B-2858 | Sequence 2858, Ap  |
| 1042 | 6 | 2.2 | 1408 | 7 | US-11-174-307B-462  | Sequence 462, App | 1115 | 6 | 2.2 | 1697 | 7 | US-11-174-307B-992  | Sequence 992, App  |
| 1043 | 6 | 2.2 | 1408 | 7 | US-11-174-307B-2510 | Sequence 2510, Ap | 1116 | 6 | 2.2 | 1703 | 7 | US-11-174-307B-558  | Sequence 558, App  |
| 1044 | 6 | 2.2 | 1411 | 7 | US-11-174-307B-2210 | Sequence 2210, Ap | 1117 | 6 | 2.2 | 1705 | 7 | US-11-174-307B-1104 | Sequence 1104, Ap  |
| 1045 | 6 | 2.2 | 1412 | 7 | US-11-174-307B-3072 | Sequence 3072, Ap | 1118 | 6 | 2.2 | 1705 | 7 | US-11-174-307B-4442 | Sequence 4442, Ap  |
| 1046 | 6 | 2.2 | 1418 | 7 | US-11-174-307B-950  | Sequence 950, App | 1119 | 6 | 2.2 | 1708 | 7 | US-11-174-307B-2086 | Sequence 2086, Ap  |
| 1047 | 6 | 2.2 | 1422 | 7 | US-11-174-307B-690  | Sequence 690, App | 1120 | 6 | 2.2 | 1708 | 7 | US-11-174-307B-2136 | Sequence 2136, Ap  |
| 1048 | 6 | 2.2 | 1425 | 7 | US-11-174-307B-706  | Sequence 706, App | 1121 | 6 | 2.2 | 1711 | 7 | US-11-174-307B-2190 | Sequence 2190, Ap  |
| 1049 | 6 | 2.2 | 1426 | 7 | US-11-174-307B-442  | Sequence 442, App | 1122 | 6 | 2.2 | 1712 | 7 | US-11-174-307B-1086 | Sequence 1086, Ap  |
| 1050 | 6 | 2.2 | 1427 | 7 | US-11-174-307B-1060 | Sequence 1060, Ap | 1123 | 6 | 2.2 | 1713 | 7 | US-11-174-307B-2824 | Sequence 2824, Ap  |
| 1051 | 6 | 2.2 | 1432 | 7 | US-11-174-307B-2846 | Sequence 2846, Ap | 1124 | 6 | 2.2 | 1720 | 7 | US-11-174-307B-3342 | Sequence 3342, Ap  |
| 1052 | 6 | 2.2 | 1434 | 7 | US-11-174-307B-1194 | Sequence 1194, Ap | 1125 | 6 | 2.2 | 1729 | 7 | US-11-174-307B-3376 | Sequence 3376, Ap  |
| 1053 | 6 | 2.2 | 1437 | 7 | US-11-330-403-10720 | Sequence 11720, A | 1126 | 6 | 2.2 | 1739 | 7 | US-11-174-307B-726  | Sequence 726, App  |
| 1054 | 6 | 2.2 | 1438 | 7 | US-11-174-307B-1176 | Sequence 1176, Ap | 1127 | 6 | 2.2 | 1741 | 7 | US-11-174-307B-726  | Sequence 726, App  |

Job time : 38 secs

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|------|---|-----|------|---|---------------------|-------------------|
| 1128 | 6 | 2.2 | 1751 | 7 | US-11-174-307B-1128 | Sequence 1128, Ap |
| 1129 | 6 | 2.2 | 1759 | 7 | US-11-174-307B-942  | Sequence 942, App |
| 1130 | 6 | 2.2 | 1762 | 7 | US-11-174-307B-2674 | Sequence 2674, Ap |
| 1131 | 6 | 2.2 | 1763 | 7 | US-11-174-307B-2112 | Sequence 2112, Ap |
| 1132 | 6 | 2.2 | 1765 | 7 | US-11-174-307B-2282 | Sequence 2282, Ap |
| 1133 | 6 | 2.2 | 1766 | 7 | US-11-174-307B-2614 | Sequence 2614, Ap |
| 1134 | 6 | 2.2 | 1766 | 7 | US-11-174-307B-5194 | Sequence 5194, Ap |
| 1135 | 6 | 2.2 | 1768 | 7 | US-11-174-307B-1220 | Sequence 1220, Ap |
| 1136 | 6 | 2.2 | 1783 | 7 | US-11-174-307B-902  | Sequence 902, App |
| 1137 | 6 | 2.2 | 1792 | 7 | US-11-174-307B-1192 | Sequence 1192, Ap |
| 1138 | 6 | 2.2 | 1811 | 7 | US-11-174-307B-924  | Sequence 924, App |
| 1139 | 6 | 2.2 | 1818 | 7 | US-11-174-307B-586  | Sequence 586, App |
| 1140 | 6 | 2.2 | 1819 | 7 | US-11-174-307B-822  | Sequence 822, App |
| 1141 | 6 | 2.2 | 1820 | 7 | US-11-174-307B-1814 | Sequence 1814, Ap |
| 1142 | 6 | 2.2 | 1824 | 7 | US-11-174-307B-1444 | Sequence 1444, Ap |
| 1143 | 6 | 2.2 | 1842 | 6 | US-10-511-937-2929  | Sequence 2929, Ap |
| 1144 | 6 | 2.2 | 1844 | 7 | US-11-174-307B-930  | Sequence 930, App |
| 1145 | 6 | 2.2 | 1847 | 7 | US-11-174-307B-2852 | Sequence 2852, Ap |
| 1146 | 6 | 2.2 | 1860 | 7 | US-11-174-307B-612  | Sequence 612, App |
| 1147 | 6 | 2.2 | 1868 | 7 | US-11-174-307B-2266 | Sequence 2266, Ap |
| 1148 | 6 | 2.2 | 1881 | 7 | US-11-174-307B-520  | Sequence 520, App |
| 1149 | 6 | 2.2 | 1883 | 7 | US-11-174-307B-708  | Sequence 708, App |
| 1150 | 6 | 2.2 | 1884 | 7 | US-11-174-307B-2588 | Sequence 2588, Ap |
| 1152 | 6 | 2.2 | 1897 | 7 | US-11-174-307B-2884 | Sequence 2884, Ap |
| 1153 | 6 | 2.2 | 1910 | 7 | US-11-174-307B-2256 | Sequence 2256, Ap |
| 1154 | 6 | 2.2 | 1915 | 7 | US-11-174-307B-1702 | Sequence 1702, Ap |
| 1155 | 6 | 2.2 | 1919 | 7 | US-11-174-307B-978  | Sequence 978, App |
| 1156 | 6 | 2.2 | 1942 | 7 | US-11-174-307B-1296 | Sequence 1296, Ap |
| 1157 | 6 | 2.2 | 1957 | 7 | US-11-174-307B-2192 | Sequence 2192, Ap |
| 1158 | 6 | 2.2 | 1957 | 7 | US-11-174-307B-2230 | Sequence 2230, Ap |
| 1159 | 6 | 2.2 | 1968 | 7 | US-11-174-307B-730  | Sequence 730, App |
| 1160 | 6 | 2.2 | 1970 | 7 | US-11-174-307B-1984 | Sequence 1984, Ap |
| 1161 | 6 | 2.2 | 1973 | 7 | US-11-174-307B-1378 | Sequence 1378, Ap |
| 1162 | 6 | 2.2 | 2003 | 7 | US-11-174-307B-5496 | Sequence 5496, Ap |
| 1163 | 6 | 2.2 | 2016 | 7 | US-11-174-307B-2188 | Sequence 2188, Ap |
| 1164 | 6 | 2.2 | 2017 | 7 | US-11-174-307B-2682 | Sequence 2682, Ap |
| 1165 | 6 | 2.2 | 2017 | 7 | US-11-174-307B-680  | Sequence 680, App |
| 1166 | 6 | 2.2 | 2052 | 7 | US-11-174-307B-652  | Sequence 652, App |
| 1167 | 6 | 2.2 | 2061 | 7 | US-11-174-307B-1216 | Sequence 1216, Ap |
| 1168 | 6 | 2.2 | 2072 | 7 | US-11-174-307B-1184 | Sequence 1184, Ap |
| 1169 | 6 | 2.2 | 2077 | 7 | US-11-174-307B-2340 | Sequence 2340, Ap |
| 1170 | 6 | 2.2 | 2085 | 7 | US-11-174-307B-954  | Sequence 954, App |
| 1171 | 6 | 2.2 | 2101 | 7 | US-11-174-307B-778  | Sequence 778, App |
| 1172 | 6 | 2.2 | 2127 | 7 | US-11-174-307B-748  | Sequence 748, App |
| 1173 | 6 | 2.2 | 2142 | 7 | US-11-174-307B-2118 | Sequence 2118, Ap |
| 1174 | 6 | 2.2 | 2143 | 7 | US-11-174-307B-2550 | Sequence 2550, Ap |
| 1175 | 6 | 2.2 | 2152 | 7 | US-11-051-725-22    | Sequence 22, Appl |
| 1176 | 6 | 2.2 | 2161 | 6 | US-10-829-000-4     | Sequence 4, Appl  |
| 1177 | 6 | 2.2 | 2161 | 7 | US-11-051-725-188   | Sequence 188, App |
| 1178 | 6 | 2.2 | 2228 | 7 | US-11-174-307B-920  | Sequence 920, App |
| 1179 | 6 | 2.2 | 2236 | 7 | US-11-174-307B-804  | Sequence 804, App |
| 1180 | 6 | 2.2 | 2394 | 7 | US-11-174-307B-2722 | Sequence 2722, Ap |
| 1181 | 6 | 2.2 | 2412 | 7 | US-11-174-307B-136  | Sequence 136, App |
| 1182 | 6 | 2.2 | 2415 | 7 | US-11-174-307B-1564 | Sequence 1564, Ap |
| 1183 | 6 | 2.2 | 2499 | 7 | US-11-174-307B-138  | Sequence 138, App |
| 1184 | 6 | 2.2 | 2623 | 6 | US-10-374-780A-1433 | Sequence 1433, Ap |
| 1185 | 6 | 2.2 | 2633 | 7 | US-11-174-307B-1414 | Sequence 1414, Ap |
| 1186 | 6 | 2.2 | 2643 | 7 | US-11-174-307B-58   | Sequence 58, Appl |
| 1187 | 6 | 2.2 | 2762 | 7 | US-11-174-307B-2676 | Sequence 2676, Ap |
| 1188 | 6 | 2.2 | 2841 | 7 | US-11-174-307B-2530 | Sequence 2530, Ap |
| 1189 | 6 | 2.2 | 3020 | 7 | US-11-140-487A-772  | Sequence 772, App |
| 1190 | 6 | 2.2 | 3159 | 7 | US-11-174-307B-1916 | Sequence 1916, Ap |
| 1191 | 6 | 2.2 | 3303 | 6 | US-10-547-530-49    | Sequence 49, Appl |
| 1192 | 6 | 2.2 | 3382 | 7 | US-11-174-307B-1654 | Sequence 1654, Ap |
| 1193 | 6 | 2.2 | 3399 | 6 | US-10-547-530-47    | Sequence 47, Appl |
| 1194 | 6 | 2.2 | 3723 | 7 | US-11-174-307B-2802 | Sequence 2802, Ap |
| 1195 | 6 | 2.2 | 4243 | 7 | US-11-174-307B-1722 | Sequence 1722, Ap |
| 1196 | 6 | 2.2 | 4659 | 7 | US-11-174-307B-1816 | Sequence 1816, Ap |
| 1197 | 6 | 2.2 | 4709 | 7 | US-11-174-307B-2292 | Sequence 2292, Ap |
| 1198 | 6 | 2.2 | 4834 | 6 | US-10-505-828-827   | Sequence 827, App |
| 1199 | 6 | 2.2 | 7285 | 7 | US-11-272-521-28    | Sequence 28, Appl |

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